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Title: Listing of Available ACE Data Tables

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Listing of Available ACE Data Tables

(formerly*known as Appendix G of the MCNP Manual)

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*The PRINCE document

Contents

1 Introduction

This document is divided into multiple sections. Section 2 lists some of the more frequently used ENDF/B reaction types that can be used with the `FM` input card. The remaining sections (described below) contain tables showing the available `ACE` data tables for various types of data. These `ACE` data libraries are distributed by the Radiation Safety Information Computational Center (RSICC) with `MCNP6`.

Section	Table	Description
3	7	$S(\alpha, \beta)$ data tables for use with the `MT` card
4	8	Continuous-energy neutron data libraries
5	9	Discrete-energy neutron data libraries
6	10	Coupled neutron-photon data library—neutron multigroup
6	11	Coupled neutron-photon data library—photon multigroup
7	12	Photoatomic data libraries
8	13	Photonuclear data libraries
9	14	Dosimetry data libraries
10	15	Electron data libraries
11	16	Proton data libraries
12	17	Charged-particle data libraries

Much of this document was created by the Python script `Appendix.py`. With the amount of data contained in this document, it is not feasible to create a document by hand. Make use of the PDF bookmarks to ease navigation to the information most useful to your application.

2 ENDF/B Reaction Types

This section lists some of the more useful reactions for use with the `FMn` input card and with the `MCNP` cross-section plotter. See the relavent section of the `MCNP` manual for more information. The complete ENDF/B list can be found in the ENDF/B manual [MCL95]. The tables and reaction types listed are:

Table	Description
1	Neutron continuous-energy reactions
2	$S(\alpha, \beta)$ reactions
3	Neutron and photon multigroup reactions
4	Photoatomic reactions
5	Photonuclear reactions
6	Electron reactions

In each of these tables, the MT column lists the ENDF/B reaction number and the FM column lists special `MCNP6` reaction numbers that can be used with the `FM` card and cross-section plotter.

The nomenclature between `MCNP6` and ENDF/B is inconsistent in that `MCNP6` often refers to the number of the reaction type as R whereas ENDF/B uses MT, but they are the same. The problem arises because `MCNP6` has an `MT` input card used for the $S(\alpha, \beta)$ thermal treatment. However, the nomenclature between Monte Carlo transport and deterministic transport techniques can be radically different. The reference [FRA96c] provides more information.

Generally only a subset of reactions is available for a particular nuclide. Some reaction data are eliminated by `MCNP6` in cross-section processing if they are not required by the problem. Examples are photon production in a `MODE N` problem, or certain reaction cross sections not requested on an `FM` card. FM numbers should be used when available, rather than MT numbers. If an MT number is requested, the equivalent FM number will be displayed on the legend of cross-section plots.

At the time they are loaded, the total and elastic cross sections from the data library are thermally adjusted by `MCNP6` to the temperature of the problem, if that temperature is different from the temperature at which the cross-section set was processed. If different cells have different temperatures, the cross sections are first adjusted to zero degrees and adjusted again to the appropriate cell temperatures during transport. The cross-section plot will *never* display the *transport* adjustment. Therefore, for plotting, reactions 1 and -1 are equivalent and reactions 2 and -3 are equivalent. However, for the `FM` card, reactions -1 and -3 will use the zero-degree data and reactions 1 and 2 will use the transport-adjusted data. For example, if a library evaluated at 300 K is used in a problem with cells at 400 K and 500 K, the cross-section plotter and `MT=-1` and `MT=-3` options on the `FM` card will use 0 K data. The `MT=1` and `MT=2` options on the `FM` card will use 400 K and 500 K data.

The user looking for total production of p, d, t, ^{3}He, and ^{4}He should be warned that in some evaluations, such processes are represented using reactions with MT (or R) numbers other than the standard ones given in the above list. This is of particular importance with the so-called "pseudolevel" representation of certain reactions which take place in light isotopes. For example, the ENDF/B-V evaluation of carbon includes cross sections for the $(n, n3\alpha)$ reaction in `MT=52` to `58`. The user interested in particle production from

Table 1: Neutron continuous-energy and discrete reactions.

MT	FM	Microscopic Cross-Section Description
1	-1	Total
2	-3	Elastic
16		$(n, 2n)$
17		$(n, 3n)$
18		Total fission (n, fx) if and only if MT=18 is used to specify fission in the original evaluation.
	-6	Total fission cross section. (equal to MT=18 if MT=18 exists; otherwise equal to the sum of MTs 19, 20, 21, and 38.)
19		(n, f)
20		$(n, n'f)$
21		$(n, 2nf)$
22		$(n, n'\alpha)$
28		$(n, n'p)$
32		$(n, n'd)$
33		$(n, n't)$
38		$(n, 3nf)$
51		(n, n') to 1st excited state
52		(n, n') to 2nd excited state
...		...
90		(n, n') to 40th excited state
91		(n, n') to continuum
101	-2	Absorption: sum of MT=102–117 (neutron disappearance; does not include fission)
102		(n, γ)
103		(n, p)
104		(n, d)
105		(n, t)
106		$(n, 3He)$
107		(n, α)
202	-5	Total photon production
203		Total proton production
204		Total deuterium production
205		Total tritium production
206		Total 3He production
207		Total alpha production
301	-4	Average heating numbers (MeV/collision)
	-7	Nubar (prompt or total)
	-8	Fission Q (in print table 98, but not plots)

Table 2: $S(\alpha, \beta)$ reactions.

MT	FM	Microscopic Cross-Section Description
1		Total cross section
2		Elastic scattering cross section
4		Inelastic scattering cross section

Table 3: Neutron and photon multigroup reactions.

MT	FM	Microscopic Cross-Section Description
1	-1	Total cross section
18	-2	Fission cross section
	-3	Nubar data
	-4	Fission chi data
101	-5	Absorption cross section
	-6	Stopping powers
	-7	Momentum transfers
n		Edit reaction n
202		Photon production
301		Heating number
318		Fission Q
401		Heating number times total cross section

light isotopes should check for the existence of pseudolevels and thus possible deviations from the above standard reaction list.

LANL maintains two electron-transport libraries, EL and EL03. The electron transport algorithms and data in `MCNP6` were adapted from the ITS code [HAL92]. The EL library was developed and released in 1990 in conjunction with the addition of electron transport into `MCNP4`; the electron-transport algorithms and data correspond (roughly) to that found in ITS version 1. The EL03 library [ADA00] was developed and released in 2000 in conjunction with upgrades to the electron physics package; these upgrades correspond (roughly) to that of ITS version 3.The MT numbers for use in plotting the cross-section values for these tables should be taken from print table 85 column headings and are not from ENDF.

Table 4: Photoatomic reactions.

MT	FM	Microscopic Cross-Section Description
501	-5	Total
504	-1	Incoherent (Compton + Form Factor)
502	-2	Coherent (Thomson + Form Factor)
522	-3	Photoelectric with fluorescence
516	-4	Pair production
301	-6	Heating number

Table 5: Photonuclear reactions.

MT	FM	Microscopic Cross-Section Description
	1	Total
	2	Non-elastic
	3	Elastic
	4	Heating
	5	Other
	1005	Neutron production from reaction 5
	2005	Photon production from reaction 5
	9005	Proton production from reaction 5

Table 6: Electon reactions.

MT	FM	Microscopic Cross-Section Description
	1	de/dx electron collision stopping power
	2	de/dx electron radiative stopping power
	3	de/dx total electron stopping power
	4	electron range
	5	electron radiation yield
	6	relativistic β^2
	7	stopping power density correction
	8	ratio of rad/col stopping powers
	9	drange
	10	dyield
	11	rng array values
	12	qav array values
	13	ear array values

3 $S(\alpha, \beta)$ Data for use with the MT Card

Table 7 lists all the $S(\alpha, \beta)$ data libraries that are maintained. The number(s) in parentheses following the description in words [Beryllium Metal (4009)] specify the nuclides for which the $S(\alpha, \beta)$ data are valid. For example, `lwtr.01t` provides scattering data only for ^{1}H—^{16}O would still be represented by the default free-gas treatment. The entries in each of the columns of Table 7 are described as follows:

ZAID The table identification number to be specified on the MT cards. The portion of the `ZAID` before the decimal point provides a shorthand alphanumeric description of the material. The two digits after the decimal point differentiate among different tables for the same material. The final character in the `ZAID` is a `t`, which indicates a thermal $S(\alpha, \beta)$ table.

Beginning with the ENDF71SaB library, a change was made to the `ZAID`s for $S(\alpha, \beta)$ materials that had a slash (/) in the `ZAID`. The slash caused some problems in Unix-like environments. The slash was replaced with a dash (-) to avoid these problems. `ZAID`s with both slashes and dashes are included in the ENDF71SaB library to maintain backwards compatibility. `ZAID`s with slashes will not be available in future libraries.

Source The current evaluated sources of $S(\alpha, \beta)$ tables are:

ENDF5 Indicates that the data were processed from evaluations distributed by the National Nuclear Data Center at Brookhaven National Laboratory as part of ENDF/B V. Note that these evaluations were carried over from ENDF/B III [KOP78].

LANL89 Initial work on cold moderator scattering data performed at Los Alamos National Laboratory [MAC88, MAC91].

ENDF6.3 Indicates that the data were processed from evaluations distributed by the National Nuclear Data Center at Brookhaven National Laboratory as part of ENDF/B VI, Release 3 [MAC94b].

ENDF/B-VII.0 Indicates that the data came from the ENDF/B-VII.0 release of data from NNDC.

ENDF/B-VII.1 Indicates that the data came from the ENDF/B-VII.1 release of data from NNDC.

Library Name of the library that contains the data file for that `ZAID`.

Evaluation Date Date that the data were evaluated by CSWEG evaluators.

Temperature The temperature of the data is in units of Kelvin.

Number of Angles The number of equally likely discrete secondary cosines provided at each combination of incident and secondary energy for inelastic scattering and for each incident energy for incoherent elastic scattering.

Number of Energies The number of secondary energies provided for each incident energy for inelastic scattering.

Elastic Scattering Data There are three options:

none no elastic scattering data for this material

coh coherent elastic scattering data provided for this material (Bragg scattering)

inco incoherent elastic scattering data provided for this material

Table 7: Thermal $S(\alpha, \beta)$ cross-section libraries

ZAID	Source	Library Name	Evaluation Date	Temp (K)	Num Angles	Num Energies	Elastic Data
			Aluminum-27 (13027)				
al27.22t	ENDF/B-VII.0	ENDF71SaB	2005	293.6	22	80	coh
al27.23t	ENDF/B-VII.0	ENDF71SaB	2005	400	22	80	coh
al27.24t	ENDF/B-VII.0	ENDF71SaB	2005	600	22	80	coh
al27.25t	ENDF/B-VII.0	ENDF71SaB	2005	800	22	80	coh
al27.20t	ENDF/B-VII.0	ENDF71SaB	2005	20	22	80	coh
al27.21t	ENDF/B-VII.0	ENDF71SaB	2005	80	22	80	coh
al27.12t	ENDF/B-VII.0	endf70sab	2005	293.6	20	80	coh
al27.13t	ENDF/B-VII.0	endf70sab	2005	400	20	80	coh
al27.14t	ENDF/B-VII.0	endf70sab	2005	600	20	80	coh
al27.15t	ENDF/B-VII.0	endf70sab	2005	800	20	80	coh
al27.10t	ENDF/B-VII.0	endf70sab	2005	20	20	80	coh
al27.11t	ENDF/B-VII.0	endf70sab	2005	80	20	80	coh
			Beryllium Metal (4009)				
be.20t	ENDF/B-VII.0	ENDF71SaB	1993	293.6	22	80	coh
be.21t	ENDF/B-VII.0	ENDF71SaB	1993	400	22	80	coh
be.22t	ENDF/B-VII.0	ENDF71SaB	1993	500	22	80	coh
be.23t	ENDF/B-VII.0	ENDF71SaB	1993	600	22	80	coh
be.24t	ENDF/B-VII.0	ENDF71SaB	1993	700	22	80	coh
be.25t	ENDF/B-VII.0	ENDF71SaB	1993	800	22	80	coh
be.26t	ENDF/B-VII.0	ENDF71SaB	1993	1000	22	80	coh
be.27t	ENDF/B-VII.0	ENDF71SaB	1993	1200	22	80	coh
be.10t	ENDF/B-VII.0	endf70sab	1993	293.6	20	80	coh
be.11t	ENDF/B-VII.0	endf70sab	1993	400	20	80	coh
be.12t	ENDF/B-VII.0	endf70sab	1993	500	20	80	coh
be.13t	ENDF/B-VII.0	endf70sab	1993	600	20	80	coh
be.14t	ENDF/B-VII.0	endf70sab	1993	700	20	80	coh
be.15t	ENDF/B-VII.0	endf70sab	1993	800	20	80	coh
be.16t	ENDF/B-VII.0	endf70sab	1993	1000	20	80	coh
be.17t	ENDF/B-VII.0	endf70sab	1993	1200	20	80	coh
be.60t	endf6.3	sab2002	1993	294	16	64	coh
be.61t	endf6.3	sab2002	1993	400	16	64	coh
be.62t	endf6.3	sab2002	1993	600	16	64	coh
be.63t	endf6.3	sab2002	1993	800	16	64	coh
be.64t	endf6.3	sab2002	1993	1000	16	64	coh
be.65t	endf6.3	sab2002	1993	1200	16	64	coh
be.69t	endf6.3	sab2002	1993	77	16	64	coh
be.01t	endf5	tmccs	1964	300	8	20	coh
be.04t	endf5	tmccs	1964	600	8	20	coh
be.05t	endf5	tmccs	1964	800	8	20	coh
be.06t	endf5	tmccs	1964	1200	8	20	coh
			Beryllium in Beryllium Oxide (4009)				
be-o.20t	ENDF/B-VII.0	ENDF71SaB	2005	293.6	22	80	coh

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Table 7: Thermal $S(\alpha, \beta)$ cross-section libraries (continued)

ZAID	Source	Library Name	Evaluation Date	Temp (K)	Num Angles	Num Energies	Elastic Data
be-o.21t	ENDF/B-VII.0	ENDF71SaB	2005	400	22	80	coh
be-o.22t	ENDF/B-VII.0	ENDF71SaB	2005	500	22	80	coh
be-o.23t	ENDF/B-VII.0	ENDF71SaB	2005	600	22	80	coh
be-o.24t	ENDF/B-VII.0	ENDF71SaB	2005	700	22	80	coh
be-o.25t	ENDF/B-VII.0	ENDF71SaB	2005	800	22	80	coh
be-o.26t	ENDF/B-VII.0	ENDF71SaB	2005	1000	22	80	coh
be-o.27t	ENDF/B-VII.0	ENDF71SaB	2005	1200	22	80	coh
Beryllium in Beryllium Oxide (4009)							
be/o.20t	ENDF/B-VII.0	ENDF71SaB	2005	293.6	22	80	coh
be/o.21t	ENDF/B-VII.0	ENDF71SaB	2005	400	22	80	coh
be/o.22t	ENDF/B-VII.0	ENDF71SaB	2005	500	22	80	coh
be/o.23t	ENDF/B-VII.0	ENDF71SaB	2005	600	22	80	coh
be/o.24t	ENDF/B-VII.0	ENDF71SaB	2005	700	22	80	coh
be/o.25t	ENDF/B-VII.0	ENDF71SaB	2005	800	22	80	coh
be/o.26t	ENDF/B-VII.0	ENDF71SaB	2005	1000	22	80	coh
be/o.27t	ENDF/B-VII.0	ENDF71SaB	2005	1200	22	80	coh
be/o.10t	ENDF/B-VII.0	endf70sab	2005	293.6	20	80	coh
be/o.11t	ENDF/B-VII.0	endf70sab	2005	400	20	80	coh
be/o.12t	ENDF/B-VII.0	endf70sab	2005	500	20	80	coh
be/o.13t	ENDF/B-VII.0	endf70sab	2005	600	20	80	coh
be/o.14t	ENDF/B-VII.0	endf70sab	2005	700	20	80	coh
be/o.15t	ENDF/B-VII.0	endf70sab	2005	800	20	80	coh
be/o.16t	ENDF/B-VII.0	endf70sab	2005	1000	20	80	coh
be/o.17t	ENDF/B-VII.0	endf70sab	2005	1200	20	80	coh
Benzene (1001, 6000, 6012)							
benz.20t	ENDF/B-VII.0	ENDF71SaB	1969	293.6	22	80	none
benz.21t	ENDF/B-VII.0	ENDF71SaB	1969	350	22	80	none
benz.22t	ENDF/B-VII.0	ENDF71SaB	1969	400	22	80	none
benz.23t	ENDF/B-VII.0	ENDF71SaB	1969	450	22	80	none
benz.24t	ENDF/B-VII.0	ENDF71SaB	1969	500	22	80	none
benz.25t	ENDF/B-VII.0	ENDF71SaB	1969	600	22	80	none
benz.26t	ENDF/B-VII.0	ENDF71SaB	1969	800	22	80	none
benz.27t	ENDF/B-VII.0	ENDF71SaB	1969	1000	22	80	none
benz.10t	ENDF/B-VII.0	endf70sab	1969	293.6	20	80	none
benz.11t	ENDF/B-VII.0	endf70sab	1969	350	20	80	none
benz.12t	ENDF/B-VII.0	endf70sab	1969	400	20	80	none
benz.13t	ENDF/B-VII.0	endf70sab	1969	450	20	80	none
benz.14t	ENDF/B-VII.0	endf70sab	1969	500	20	80	none
benz.15t	ENDF/B-VII.0	endf70sab	1969	600	20	80	none
benz.16t	ENDF/B-VII.0	endf70sab	1969	800	20	80	none
benz.17t	ENDF/B-VII.0	endf70sab	1969	1000	20	80	none
benz.60t	endf6.3	sab2002	1969	294	16	64	none
benz.61t	endf6.3	sab2002	1969	400	16	64	none
benz.62t	endf6.3	sab2002	1969	600	16	64	none
benz.63t	endf6.3	sab2002	1969	800	16	64	none

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Table 7: Thermal $S(\alpha, \beta)$ cross-section libraries (continued)

ZAID	Source	Library Name	Evaluation Date	Temp (K)	Num Angles	Num Energies	Elastic Data
benz.01t	endf5	tmccs	<1969	300	8	32	none
benz.02t	endf5	tmccs	<1969	400	8	32	none
benz.03t	endf5	tmccs	<1969	500	8	32	none
benz.04t	endf5	tmccs	<1969	600	8	32	none
benz.05t	endf5	tmccs	<1969	800	8	32	none
Beryllium Oxide (4009, 8016)							
beo.60t	endf6.3	sab2002	1993	294	16	64	coh
beo.61t	endf6.3	sab2002	1993	400	16	64	coh
beo.62t	endf6.3	sab2002	1993	600	16	64	coh
beo.63t	endf6.3	sab2002	1993	800	16	64	coh
beo.64t	endf6.3	sab2002	1993	1000	16	64	coh
beo.65t	endf6.3	sab2002	1993	1200	16	64	coh
beo.01t	endf5	tmccs	<1969	300	8	32	coh
beo.04t	endf5	tmccs	<1969	600	8	32	coh
beo.05t	endf5	tmccs	<1969	800	8	32	coh
beo.06t	endf5	tmccs	<1969	1200	8	32	coh
Ortho Deuterium (1002)							
dortho.20t	ENDF/B-VII.0	ENDF71SaB	1993	19	22	80	none
dortho.10t	ENDF/B-VII.0	endf70sab	1993	19	20	80	none
dortho.60t	endf6.3	sab2002	1993	19	16	64	none
dortho.01t	lanl89	therxs	<1969	20	8	8	none
Para Deuterium (1002)							
dpara.20t	ENDF/B-VII.0	ENDF71SaB	1993	19	22	80	none
dpara.10t	ENDF/B-VII.0	endf70sab	1993	19	20	80	none
dpara.60t	endf6.3	sab2002	1993	19	16	64	none
dpara.01t	lanl89	therxs	<1969	20	8	8	none
Iron-56 (26056)							
fe56.22t	ENDF/B-VII.0	ENDF71SaB	2005	293.6	22	80	coh
fe56.23t	ENDF/B-VII.0	ENDF71SaB	2005	400	22	80	coh
fe56.24t	ENDF/B-VII.0	ENDF71SaB	2005	600	22	80	coh
fe56.25t	ENDF/B-VII.0	ENDF71SaB	2005	800	22	80	coh
fe56.20t	ENDF/B-VII.0	ENDF71SaB	2005	20	22	80	coh
fe56.21t	ENDF/B-VII.0	ENDF71SaB	2005	80	22	80	coh
fe56.12t	ENDF/B-VII.0	endf70sab	2005	293.6	20	80	coh
fe56.13t	ENDF/B-VII.0	endf70sab	2005	400	20	80	coh
fe56.14t	ENDF/B-VII.0	endf70sab	2005	600	20	80	coh
fe56.15t	ENDF/B-VII.0	endf70sab	2005	800	20	80	coh
fe56.10t	ENDF/B-VII.0	endf70sab	2005	20	20	80	coh
fe56.11t	ENDF/B-VII.0	endf70sab	2005	80	20	80	coh
Graphite (6000,6012)							
grph.20t	ENDF/B-VII.0	ENDF71SaB	1993	293.6	22	80	coh
grph.21t	ENDF/B-VII.0	ENDF71SaB	1993	400	22	80	coh
grph.22t	ENDF/B-VII.0	ENDF71SaB	1993	500	22	80	coh
grph.23t	ENDF/B-VII.0	ENDF71SaB	1993	600	22	80	coh

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Table 7: Thermal $S(\alpha, \beta)$ cross-section libraries (continued)

ZAID	Source	Library Name	Evaluation Date	Temp (K)	Num Angles	Num Energies	Elastic Data
grph.24t	ENDF/B-VII.0	ENDF71SaB	1993	700	22	80	coh
grph.25t	ENDF/B-VII.0	ENDF71SaB	1993	800	22	80	coh
grph.26t	ENDF/B-VII.0	ENDF71SaB	1993	1000	22	80	coh
grph.27t	ENDF/B-VII.0	ENDF71SaB	1993	1200	22	80	coh
grph.28t	ENDF/B-VII.0	ENDF71SaB	1993	1600	22	80	coh
grph.29t	ENDF/B-VII.0	ENDF71SaB	1993	2000	22	80	coh
grph.10t	ENDF/B-VII.0	endf70sab	1993	293.6	20	80	coh
grph.11t	ENDF/B-VII.0	endf70sab	1993	400	20	80	coh
grph.12t	ENDF/B-VII.0	endf70sab	1993	500	20	80	coh
grph.13t	ENDF/B-VII.0	endf70sab	1993	600	20	80	coh
grph.14t	ENDF/B-VII.0	endf70sab	1993	700	20	80	coh
grph.15t	ENDF/B-VII.0	endf70sab	1993	800	20	80	coh
grph.16t	ENDF/B-VII.0	endf70sab	1993	1000	20	80	coh
grph.17t	ENDF/B-VII.0	endf70sab	1993	1200	20	80	coh
grph.18t	ENDF/B-VII.0	endf70sab	1993	1600	20	80	coh
grph.19t	ENDF/B-VII.0	endf70sab	1993	2000	20	80	coh
grph.60t	endf6.3	sab2002	1993	294	16	64	coh
grph.61t	endf6.3	sab2002	1993	400	16	64	coh
grph.62t	endf6.3	sab2002	1993	600	16	64	coh
grph.63t	endf6.3	sab2002	1993	800	16	64	coh
grph.64t	endf6.3	sab2002	1993	1000	16	64	coh
grph.65t	endf6.3	sab2002	1993	1200	16	64	coh
grph.01t	endf5	tmccs	1965	300	8	32	coh
grph.04t	endf5	tmccs	1965	600	8	32	coh
grph.05t	endf5	tmccs	1965	800	8	32	coh
grph.06t	endf5	tmccs	1965	1200	8	32	coh
grph.07t	endf5	tmccs	1965	1600	8	32	coh
grph.08t	endf5	tmccs	1965	2000	8	32	coh
Hydrogen in Zirconium Hydride (1001)							
h-zr.20t	ENDF/B-VII.0	ENDF71SaB	1993	293.6	22	80	inco
h-zr.21t	ENDF/B-VII.0	ENDF71SaB	1993	400	22	80	inco
h-zr.22t	ENDF/B-VII.0	ENDF71SaB	1993	500	22	80	inco
h-zr.23t	ENDF/B-VII.0	ENDF71SaB	1993	600	22	80	inco
h-zr.24t	ENDF/B-VII.0	ENDF71SaB	1993	700	22	80	inco
h-zr.25t	ENDF/B-VII.0	ENDF71SaB	1993	800	22	80	inco
h-zr.26t	ENDF/B-VII.0	ENDF71SaB	1993	1000	22	80	inco
h-zr.27t	ENDF/B-VII.0	ENDF71SaB	1993	1200	22	80	inco
Hydrogen in Zirconium Hydride (1001)							
h/zr.20t	ENDF/B-VII.0	ENDF71SaB	1993	293.6	22	80	inco
h/zr.21t	ENDF/B-VII.0	ENDF71SaB	1993	400	22	80	inco
h/zr.22t	ENDF/B-VII.0	ENDF71SaB	1993	500	22	80	inco
h/zr.23t	ENDF/B-VII.0	ENDF71SaB	1993	600	22	80	inco
h/zr.24t	ENDF/B-VII.0	ENDF71SaB	1993	700	22	80	inco
h/zr.25t	ENDF/B-VII.0	ENDF71SaB	1993	800	22	80	inco
h/zr.26t	ENDF/B-VII.0	ENDF71SaB	1993	1000	22	80	inco

Table 7: Thermal $S(\alpha, \beta)$ cross-section libraries (continued)

ZAID	Source	Library Name	Evaluation Date	Temp (K)	Num Angles	Num Energies	Elastic Data
h/zr.27t	ENDF/B-VII.0	ENDF71SaB	1993	1200	22	80	inco
h/zr.10t	ENDF/B-VII.0	endf70sab	1993	293.6	20	80	inco
h/zr.11t	ENDF/B-VII.0	endf70sab	1993	400	20	80	inco
h/zr.12t	ENDF/B-VII.0	endf70sab	1993	500	20	80	inco
h/zr.13t	ENDF/B-VII.0	endf70sab	1993	600	20	80	inco
h/zr.14t	ENDF/B-VII.0	endf70sab	1993	700	20	80	inco
h/zr.15t	ENDF/B-VII.0	endf70sab	1993	800	20	80	inco
h/zr.16t	ENDF/B-VII.0	endf70sab	1993	1000	20	80	inco
h/zr.17t	ENDF/B-VII.0	endf70sab	1993	1200	20	80	inco
h/zr.60t	endf6.3	sab2002	1993	294	16	64	inco
h/zr.61t	endf6.3	sab2002	1993	400	16	64	inco
h/zr.62t	endf6.3	sab2002	1993	600	16	64	inco
h/zr.63t	endf6.3	sab2002	1993	800	16	64	inco
h/zr.64t	endf6.3	sab2002	1993	1000	16	64	inco
h/zr.65t	endf6.3	sab2002	1993	1200	16	64	inco
h/zr.01t	endf5	tmccs	<1969	300	8	20	inco
h/zr.02t	endf5	tmccs	<1969	400	8	20	inco
h/zr.04t	endf5	tmccs	<1969	600	8	20	inco
h/zr.05t	endf5	tmccs	<1969	800	8	20	inco
h/zr.06t	endf5	tmccs	<1969	1200	8	20	inco
Ortho Hydrogen (1001)							
hortho.20t	ENDF/B-VII.0	ENDF71SaB	1993	20	22	80	none
hortho.10t	ENDF/B-VII.0	endf70sab	1993	20	20	80	none
hortho.60t	endf6.3	sab2002	1993	19	16	64	none
hortho.61t	endf6.3	sab2002	1993	20	16	64	none
hortho.62t	endf6.3	sab2002	1993	21	16	64	none
hortho.63t	endf6.3	sab2002	1993	22	16	64	none
hortho.64t	endf6.3	sab2002	1993	23	16	64	none
hortho.65t	endf6.3	sab2002	1993	24	16	64	none
hortho.66t	endf6.3	sab2002	1993	25	16	64	none
hortho.01t	lanl89	therxs	<1969	20	8	8	none
Para Hydrogen (1001)							
hpara.20t	ENDF/B-VII.0	ENDF71SaB	1993	20	22	80	none
hpara.10t	ENDF/B-VII.0	endf70sab	1993	20	20	80	none
hpara.60t	endf6.3	sab2002	1993	19	16	64	none
hpara.61t	endf6.3	sab2002	1993	20	16	64	none
hpara.62t	endf6.3	sab2002	1993	21	16	64	none
hpara.63t	endf6.3	sab2002	1993	22	16	64	none
hpara.64t	endf6.3	sab2002	1993	23	16	64	none
hpara.65t	endf6.3	sab2002	1993	24	16	64	none
hpara.66t	endf6.3	sab2002	1993	25	16	64	none
hpara.01t	lanl89	therxs	<1969	20	8	8	none
Deuterium in Heavy Water (1002)							
hwtr.20t	ENDF/B-VII.0	ENDF71SaB	2004	293.6	22	80	none
hwtr.21t	ENDF/B-VII.0	ENDF71SaB	2004	350	22	80	none

Table 7: Thermal $S(\alpha, \beta)$ cross-section libraries (continued)

ZAID	Source	Library Name	Evaluation Date	Temp (K)	Num Angles	Num Energies	Elastic Data
hwtr.22t	ENDF/B-VII.0	ENDF71SaB	2004	400	22	80	none
hwtr.23t	ENDF/B-VII.0	ENDF71SaB	2004	450	22	80	none
hwtr.24t	ENDF/B-VII.0	ENDF71SaB	2004	500	22	80	none
hwtr.25t	ENDF/B-VII.0	ENDF71SaB	2004	550	22	80	none
hwtr.26t	ENDF/B-VII.0	ENDF71SaB	2004	600	22	80	none
hwtr.27t	ENDF/B-VII.0	ENDF71SaB	2004	650	22	80	none
hwtr.10t	ENDF/B-VII.0	endf70sab	2004	293.6	20	80	none
hwtr.11t	ENDF/B-VII.0	endf70sab	2004	350	20	80	none
hwtr.12t	ENDF/B-VII.0	endf70sab	2004	400	20	80	none
hwtr.13t	ENDF/B-VII.0	endf70sab	2004	450	20	80	none
hwtr.14t	ENDF/B-VII.0	endf70sab	2004	500	20	80	none
hwtr.15t	ENDF/B-VII.0	endf70sab	2004	550	20	80	none
hwtr.16t	ENDF/B-VII.0	endf70sab	2004	600	20	80	none
hwtr.17t	ENDF/B-VII.0	endf70sab	2004	650	20	80	none
hwtr.60t	endf6.3	sab2002	1969	294	16	64	none
hwtr.61t	endf6.3	sab2002	1969	400	16	64	none
hwtr.62t	endf6.3	sab2002	1969	600	16	64	none
hwtr.63t	endf6.3	sab2002	1969	800	16	64	none
hwtr.64t	endf6.3	sab2002	1969	1000	16	64	none
hwtr.01t	endf5	tmccs	1969	300	8	20	none
hwtr.02t	endf5	tmccs	1969	400	8	20	none
hwtr.03t	endf5	tmccs	1969	500	8	20	none
hwtr.04t	endf5	tmccs	1969	600	8	20	none
hwtr.05t	endf5	tmccs	1969	800	8	20	none
Hydrogen in Liquid Methane (1001)							
lmeth.20t	ENDF/B-VII.0	ENDF71SaB	1993	100	22	80	none
lmeth.10t	ENDF/B-VII.0	endf70sab	1993	100	20	80	none
lmeth.60t	endf6.3	sab2002	1993	100	16	64	none
lmeth.01t	lanl89	therxs	<1969	100	8	8	none
Hydrogen in Light Water (1001)							
lwtr.20t	ENDF/B-VII.0	ENDF71SaB	2006	293.6	22	80	none
lwtr.21t	ENDF/B-VII.0	ENDF71SaB	2006	350	22	80	none
lwtr.22t	ENDF/B-VII.0	ENDF71SaB	2006	400	22	80	none
lwtr.23t	ENDF/B-VII.0	ENDF71SaB	2006	450	22	80	none
lwtr.24t	ENDF/B-VII.0	ENDF71SaB	2006	500	22	80	none
lwtr.25t	ENDF/B-VII.0	ENDF71SaB	2006	550	22	80	none
lwtr.26t	ENDF/B-VII.0	ENDF71SaB	2006	600	22	80	none
lwtr.27t	ENDF/B-VII.0	ENDF71SaB	2006	650	22	80	none
lwtr.28t	ENDF/B-VII.0	ENDF71SaB	2006	800	22	80	none
lwtr.10t	ENDF/B-VII.0	endf70sab	2006	293.6	20	80	none
lwtr.11t	ENDF/B-VII.0	endf70sab	2006	350	20	80	none
lwtr.12t	ENDF/B-VII.0	endf70sab	2006	400	20	80	none
lwtr.13t	ENDF/B-VII.0	endf70sab	2006	450	20	80	none
lwtr.14t	ENDF/B-VII.0	endf70sab	2006	500	20	80	none
lwtr.15t	ENDF/B-VII.0	endf70sab	2006	550	20	80	none

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Table 7: Thermal $S(\alpha, \beta)$ cross-section libraries (continued)

ZAID	Source	Library Name	Evaluation Date	Temp (K)	Num Angles	Num Energies	Elastic Data
lwtr.16t	ENDF/B-VII.0	endf70sab	2006	600	20	80	none
lwtr.17t	ENDF/B-VII.0	endf70sab	2006	650	20	80	none
lwtr.18t	ENDF/B-VII.0	endf70sab	2006	800	20	80	none
lwtr.60t	endf6.3	sab2002	1993	294	16	64	none
lwtr.61t	endf6.3	sab2002	1993	400	16	64	none
lwtr.62t	endf6.3	sab2002	1993	500	16	64	none
lwtr.63t	endf6.3	sab2002	1993	800	16	64	none
lwtr.64t	endf6.3	sab2002	1993	1000	16	64	none
lwtr.01t	endf5	tmccs	<1969	300	8	20	none
lwtr.02t	endf5	tmccs	<1969	400	8	20	none
lwtr.03t	endf5	tmccs	<1969	500	8	20	none
lwtr.04t	endf5	tmccs	<1969	600	8	20	none
lwtr.05t	endf5	tmccs	<1969	800	8	20	none
Oxygen in Beryllium Oxide (8016, 8017, 8018)							
o-be.20t	ENDF/B-VII.0	ENDF71SaB	2005	293.6	22	80	coh
o-be.21t	ENDF/B-VII.0	ENDF71SaB	2005	400	22	80	coh
o-be.22t	ENDF/B-VII.0	ENDF71SaB	2005	500	22	80	coh
o-be.23t	ENDF/B-VII.0	ENDF71SaB	2005	600	22	80	coh
o-be.24t	ENDF/B-VII.0	ENDF71SaB	2005	700	22	80	coh
o-be.25t	ENDF/B-VII.0	ENDF71SaB	2005	800	22	80	coh
o-be.26t	ENDF/B-VII.0	ENDF71SaB	2005	1000	22	80	coh
o-be.27t	ENDF/B-VII.0	ENDF71SaB	2005	1200	22	80	coh
Oxygen in Beryllium Oxide (8016, 8017, 8018)							
o/be.20t	ENDF/B-VII.0	ENDF71SaB	2005	293.6	22	80	coh
o/be.21t	ENDF/B-VII.0	ENDF71SaB	2005	400	22	80	coh
o/be.22t	ENDF/B-VII.0	ENDF71SaB	2005	500	22	80	coh
o/be.23t	ENDF/B-VII.0	ENDF71SaB	2005	600	22	80	coh
o/be.24t	ENDF/B-VII.0	ENDF71SaB	2005	700	22	80	coh
o/be.25t	ENDF/B-VII.0	ENDF71SaB	2005	800	22	80	coh
o/be.26t	ENDF/B-VII.0	ENDF71SaB	2005	1000	22	80	coh
o/be.27t	ENDF/B-VII.0	ENDF71SaB	2005	1200	22	80	coh
o/be.10t	ENDF/B-VII.0	endf70sab	2005	293.6	20	80	coh
o/be.11t	ENDF/B-VII.0	endf70sab	2005	400	20	80	coh
o/be.12t	ENDF/B-VII.0	endf70sab	2005	500	20	80	coh
o/be.13t	ENDF/B-VII.0	endf70sab	2005	600	20	80	coh
o/be.14t	ENDF/B-VII.0	endf70sab	2005	700	20	80	coh
o/be.15t	ENDF/B-VII.0	endf70sab	2005	800	20	80	coh
o/be.16t	ENDF/B-VII.0	endf70sab	2005	1000	20	80	coh
o/be.17t	ENDF/B-VII.0	endf70sab	2005	1200	20	80	coh
Oxygen in UO2 (8016, 8017, 8018)							
o2-u.20t	ENDF/B-VII.0	ENDF71SaB	2005	293.6	22	80	coh
o2-u.21t	ENDF/B-VII.0	ENDF71SaB	2005	400	22	80	coh
o2-u.22t	ENDF/B-VII.0	ENDF71SaB	2005	500	22	80	coh
o2-u.23t	ENDF/B-VII.0	ENDF71SaB	2005	600	22	80	coh
o2-u.24t	ENDF/B-VII.0	ENDF71SaB	2005	700	22	80	coh

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Table 7: Thermal $S(\alpha, \beta)$ cross-section libraries (continued)

ZAID	Source	Library Name	Evaluation Date	Temp (K)	Num Angles	Num Energies	Elastic Data
o2-u.25t	ENDF/B-VII.0	ENDF71SaB	2005	800	22	80	coh
o2-u.26t	ENDF/B-VII.0	ENDF71SaB	2005	1000	22	80	coh
o2-u.27t	ENDF/B-VII.0	ENDF71SaB	2005	1200	22	80	coh
Oxygen in UO2 (8016, 8017, 8018)							
o2/u.20t	ENDF/B-VII.0	ENDF71SaB	2005	293.6	22	80	coh
o2/u.21t	ENDF/B-VII.0	ENDF71SaB	2005	400	22	80	coh
o2/u.22t	ENDF/B-VII.0	ENDF71SaB	2005	500	22	80	coh
o2/u.23t	ENDF/B-VII.0	ENDF71SaB	2005	600	22	80	coh
o2/u.24t	ENDF/B-VII.0	ENDF71SaB	2005	700	22	80	coh
o2/u.25t	ENDF/B-VII.0	ENDF71SaB	2005	800	22	80	coh
o2/u.26t	ENDF/B-VII.0	ENDF71SaB	2005	1000	22	80	coh
o2/u.27t	ENDF/B-VII.0	ENDF71SaB	2005	1200	22	80	coh
o2/u.10t	ENDF/B-VII.0	endf70sab	2005	293.6	20	80	coh
o2/u.11t	ENDF/B-VII.0	endf70sab	2005	400	20	80	coh
o2/u.12t	ENDF/B-VII.0	endf70sab	2005	500	20	80	coh
o2/u.13t	ENDF/B-VII.0	endf70sab	2005	600	20	80	coh
o2/u.14t	ENDF/B-VII.0	endf70sab	2005	700	20	80	coh
o2/u.15t	ENDF/B-VII.0	endf70sab	2005	800	20	80	coh
o2/u.16t	ENDF/B-VII.0	endf70sab	2005	1000	20	80	coh
o2/u.17t	ENDF/B-VII.0	endf70sab	2005	1200	20	80	coh
Hydrogen in Polyethylene (1001)							
poly.20t	ENDF/B-VII.0	ENDF71SaB	1969	293.6	22	80	inco
poly.21t	ENDF/B-VII.0	ENDF71SaB	1969	350	22	80	inco
poly.10t	ENDF/B-VII.0	endf70sab	1969	293.6	20	80	inco
poly.11t	ENDF/B-VII.0	endf70sab	1969	350	20	80	inco
poly.60t	endf6.3	sab2002	1969	294	16	64	inco
poly.01t	endf5	tmccs	1969	300	8	20	inco
Silicon and oxygen in SiO2 (8016, 14028, 14029)							
sio2.30t	ENDF/B-VII.1	ENDF71SaB	2010	293.6	22	80	coh
sio2.31t	ENDF/B-VII.1	ENDF71SaB	2010	350	22	80	coh
sio2.32t	ENDF/B-VII.1	ENDF71SaB	2010	400	22	80	coh
sio2.33t	ENDF/B-VII.1	ENDF71SaB	2010	500	22	80	coh
sio2.34t	ENDF/B-VII.1	ENDF71SaB	2010	800	22	80	coh
sio2.35t	ENDF/B-VII.1	ENDF71SaB	2010	1000	22	80	coh
sio2.36t	ENDF/B-VII.1	ENDF71SaB	2010	1200	22	80	coh
Hydrogen in Solid Methane (1001)							
smeth.20t	ENDF/B-VII.0	ENDF71SaB	1993	22	22	80	inco
smeth.10t	ENDF/B-VII.0	endf70sab	1993	22	20	80	inco
smeth.60t	endf6.3	sab2002	1993	22	16	64	inco
smeth.01t	lanl89	therxs	<1969	22	8	8	inco
Uranium-238 in UO2 (92238)							
u-o2.30t	ENDF/B-VII.0	ENDF71SaB	2005	293.6	22	80	coh
u-o2.31t	ENDF/B-VII.0	ENDF71SaB	2005	400	22	80	coh
u-o2.32t	ENDF/B-VII.0	ENDF71SaB	2005	500	22	80	coh

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Table 7: Thermal $S(\alpha, \beta)$ cross-section libraries (continued)

ZAID	Source	Library Name	Evaluation Date	Temp (K)	Num Angles	Num Energies	Elastic Data
u-o2.33t	ENDF/B-VII.0	ENDF71SaB	2005	600	22	80	coh
u-o2.34t	ENDF/B-VII.0	ENDF71SaB	2005	700	22	80	coh
u-o2.35t	ENDF/B-VII.0	ENDF71SaB	2005	800	22	80	coh
u-o2.36t	ENDF/B-VII.0	ENDF71SaB	2005	1000	22	80	coh
u-o2.37t	ENDF/B-VII.0	ENDF71SaB	2005	1200	22	80	coh
Uranium-238 in UO2 (92238)							
u/o2.30t	ENDF/B-VII.0	ENDF71SaB	2005	293.6	22	80	coh
u/o2.31t	ENDF/B-VII.0	ENDF71SaB	2005	400	22	80	coh
u/o2.32t	ENDF/B-VII.0	ENDF71SaB	2005	500	22	80	coh
u/o2.33t	ENDF/B-VII.0	ENDF71SaB	2005	600	22	80	coh
u/o2.34t	ENDF/B-VII.0	ENDF71SaB	2005	700	22	80	coh
u/o2.35t	ENDF/B-VII.0	ENDF71SaB	2005	800	22	80	coh
u/o2.36t	ENDF/B-VII.0	ENDF71SaB	2005	1000	22	80	coh
u/o2.37t	ENDF/B-VII.0	ENDF71SaB	2005	1200	22	80	coh
u/o2.10t	ENDF/B-VII.0	endf70sab	2005	293.6	20	80	coh
u/o2.11t	ENDF/B-VII.0	endf70sab	2005	400	20	80	coh
u/o2.12t	ENDF/B-VII.0	endf70sab	2005	500	20	80	coh
u/o2.13t	ENDF/B-VII.0	endf70sab	2005	600	20	80	coh
u/o2.14t	ENDF/B-VII.0	endf70sab	2005	700	20	80	coh
u/o2.15t	ENDF/B-VII.0	endf70sab	2005	800	20	80	coh
u/o2.16t	ENDF/B-VII.0	endf70sab	2005	1000	20	80	coh
u/o2.17t	ENDF/B-VII.0	endf70sab	2005	1200	20	80	coh
Zirconium in Zirconium Hydride (40000, 40090, 40091, 40092, 40094, 40096)							
zr-h.30t	ENDF/B-VII.0	ENDF71SaB	1993	293.6	22	80	inco
zr-h.31t	ENDF/B-VII.0	ENDF71SaB	1993	400	22	80	inco
zr-h.32t	ENDF/B-VII.0	ENDF71SaB	1993	500	22	80	inco
zr-h.33t	ENDF/B-VII.0	ENDF71SaB	1993	600	22	80	inco
zr-h.34t	ENDF/B-VII.0	ENDF71SaB	1993	700	22	80	inco
zr-h.35t	ENDF/B-VII.0	ENDF71SaB	1993	800	22	80	inco
zr-h.36t	ENDF/B-VII.0	ENDF71SaB	1993	1000	22	80	inco
zr-h.37t	ENDF/B-VII.0	ENDF71SaB	1993	1200	22	80	inco
Zirconium in Zirconium Hydride (40000, 40090, 40091, 40092, 40094, 40096)							
zr/h.30t	ENDF/B-VII.0	ENDF71SaB	1993	293.6	22	80	inco
zr/h.31t	ENDF/B-VII.0	ENDF71SaB	1993	400	22	80	inco
zr/h.32t	ENDF/B-VII.0	ENDF71SaB	1993	500	22	80	inco
zr/h.33t	ENDF/B-VII.0	ENDF71SaB	1993	600	22	80	inco
zr/h.34t	ENDF/B-VII.0	ENDF71SaB	1993	700	22	80	inco
zr/h.35t	ENDF/B-VII.0	ENDF71SaB	1993	800	22	80	inco
zr/h.36t	ENDF/B-VII.0	ENDF71SaB	1993	1000	22	80	inco
zr/h.37t	ENDF/B-VII.0	ENDF71SaB	1993	1200	22	80	inco
zr/h.10t	ENDF/B-VII.0	endf70sab	1993	293.6	20	80	inco
zr/h.11t	ENDF/B-VII.0	endf70sab	1993	400	20	80	inco
zr/h.12t	ENDF/B-VII.0	endf70sab	1993	500	20	80	inco
zr/h.13t	ENDF/B-VII.0	endf70sab	1993	600	20	80	inco
zr/h.14t	ENDF/B-VII.0	endf70sab	1993	700	20	80	inco

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Table 7: Thermal $S(\alpha, \beta)$ cross-section libraries (continued)

ZAID	Source	Library Name	Evaluation Date	Temp (K)	Num Angles	Num Energies	Elastic Data
zr/h.15t	ENDF/B-VII.0	endf70sab	1993	800	20	80	inco
zr/h.16t	ENDF/B-VII.0	endf70sab	1993	1000	20	80	inco
zr/h.17t	ENDF/B-VII.0	endf70sab	1993	1200	20	80	inco
zr/h.60t	endf6.3	sab2002	1993	294	16	64	inco
zr/h.61t	endf6.3	sab2002	1993	400	16	64	inco
zr/h.62t	endf6.3	sab2002	1993	600	16	64	inco
zr/h.63t	endf6.3	sab2002	1993	800	16	64	inco
zr/h.64t	endf6.3	sab2002	1993	1000	16	64	inco
zr/h.65t	endf6.3	sab2002	1993	1200	16	64	inco
zr/h.01t	endf5	tmccs	<1969	300	8	32	inco
zr/h.02t	endf5	tmccs	<1969	400	8	32	inco
zr/h.04t	endf5	tmccs	<1969	600	8	32	inco
zr/h.05t	endf5	tmccs	<1969	800	8	32	inco
zr/h.06t	endf5	tmccs	<1969	1200	8	32	inco

4 Neutron Continuous-Energy Cross-Section Libraries

Table 8 lists all the continuous-energy neutron data libraries maintained by LANL's X-Division. The entries in each of the columns of Table 8 are described as follows:

ZAID The nuclide identification number with the form `ZZZAAA.abx` where

> `ZZZ` is the atomic number,
>
> `AAA` is the mass number (000 for naturally occurring elements),
>
> `ab` is the unique alphanumeric table identifier
>
> `x=C` for continuous-energy neutron tables
>
> `x=D` for discrete-reaction tables

Atomic Weight Ratio The atomic weight ratio (AWR) is the ratio of the atomic mass of the nuclide to a neutron. This is the AWR that is contained in the original evaluation and that was used in the NJOY processing of the evaluation.

Library Name of the library that contains the data file for that `ZAID`. The number in brackets following a file name refers to one of the special notes at the end of Table 8.

Source Indicates the originating evaluation for that data file.

> **ENDF** The Evaluated Nuclear Data Files (ENDF), a US effort coordinated by the National Nuclear Data Center (NNDC) at Brookhaven National Laboratory. The evaluations are updated periodically by evaluators from all over the country, and the release number of the evaluation is given. This is not necessarily the same as the ENDF revision number for that evaluation. For example, Pu 242 is noted as ENDF/B VI.2 as it is from release 2 of ENDF/B VI, but it is revision 1 of that evaluation.
>
> **LLNL** Evaluated nuclear data libraries compiled by the Nuclear Data Group at Lawrence Livermore National Laboratory. The number in the library name indicates the year the library was produced or received.
>
> **LANL** Evaluations from the Nuclear Physics Group T-16 at Los Alamos National Laboratory.
>
> **T or X** The original evaluation has been modified by the Los Alamos National Laboratory groups T-16 or X-Division.

Evaluation Date Denotes the year that the evaluation was completed or accepted. In cases where this information is not known, the date that the data library was produced is given. It is rare that a completely new evaluation is produced. Most often, only a section of an existing evaluation is updated, but a new evaluation date is assigned. This can be misleading for the users, and we encourage you to read File 1 of the ENDF file for data tables important to your application to understand the history of a specific evaluation. This information is available form the Data Team's web site. The notation "<1985" means "before" 1985.

Temperature Indicates the temperature (K) at which the data were processed. The temperature enters into the processing of the evaluation of a data file only through the Doppler broadening of cross sections. The user must be aware that without the proper use of the TMP card, `MCNP6` will attempt to correct the data libraries to the default 300K by modifying the elastic and total cross sections only.

Doppler broadening refers to a change in cross section resulting from thermal motion (translation, rotation and vibration) of nuclei in a target material. Doppler broadening is done on all cross sections for incident neutrons (non-relativistic energies) on a target at some temperature (TEMP) in which the free-atom approximation is valid. In general an increase in the temperature of the material containing neutron-absorbing nuclei in a homogeneous system results in Doppler broadening of resonances and an increase in resonance absorption. Furthermore, a constant cross section at 0 K goes to $1/v$ behavior as the temperature increases. You should not only use the best evaluations but also use evaluations that are at temperatures approximating the temperatures in your application.

Length The total length of a particular cross-section file in words. It is understood that the actual storage requirement in an MCNP6 problem will often be less because certain data that are not needed for a problem may be expunged.

Number of Energies The number of energy points (NE) on the grid used for the neutron cross section for that data file. In general, a finer energy grid (or greater number of points) indicates a more accurate representation of the cross sections, particularly through the resonance region.

$E_{\max}$ The maximum incident neutron energy for that data file. For all incident neutron energies greater than $E_{\max}$, MCNP6 assumes the last cross-section value given.

GPD "yes" means that photon-production data are included;
"no" means that such data are not included.

$\overline{\nu}$ For fissionable material, $\overline{\nu}$ indicates the type of fission nu data available.
"pr" means that only prompt nu data are given;
"tot" means that only total nu data are given;
"both" means that prompt and total nu are given.

CP "yes" means that secondary charged-particles data are present;
"no" means that such data are not present.

DN "yes" means that delayed neutron data are present;
"no" means that such data are not present.

UR "yes" means that unresolved resonance data are present;
"no" means that such data are not present.

The numbers in the Notes column refer to the notes following Table 8

Table 8 contains no indication of a "recommended" library for each isotope. Because of the wide variety of applications MCNP6 is used to simulate, no one set is "best". The default cross-section set for each isotope is determined by the XSDIR file being used.

Table 8: Continuous-energy neutron data libraries

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
					Z = 1, hydrogen									
H-1														
1001.80c	0.999167	ENDF71x	ENDF/B-VII.1	2005	293.6	17969	590	20.0	yes	no	yes	no	no	
1001.81c	0.999167	ENDF71x	ENDF/B-VII.1	2005	600.0	17969	590	20.0	yes	no	yes	no	no	
1001.82c	0.999167	ENDF71x	ENDF/B-VII.1	2005	900.0	17969	590	20.0	yes	no	yes	no	no	
1001.83c	0.999167	ENDF71x	ENDF/B-VII.1	2005	1200.0	17969	590	20.0	yes	no	yes	no	no	
1001.84c	0.999167	ENDF71x	ENDF/B-VII.1	2005	2500.0	17969	590	20.0	yes	no	yes	no	no	
1001.85c	0.999167	ENDF71x	ENDF/B-VII.1	2005	0.1	17969	590	20.0	yes	no	yes	no	no	
1001.86c	0.999167	ENDF71x	ENDF/B-VII.1	2005	250.0	17969	590	20.0	yes	no	yes	no	no	
1001.70c	0.999167	endf70a	ENDF/B-VII.0:x	2005	293.6	8177	590	20	yes	no	yes	no	no	
1001.71c	0.999167	endf70a	ENDF/B-VII.0:x	2005	600	8177	590	20	yes	no	yes	no	no	
1001.72c	0.999167	endf70a	ENDF/B-VII.0:x	2005	900	8177	590	20	yes	no	yes	no	no	
1001.73c	0.999167	endf70a	ENDF/B-VII.0:x	2005	1200	8177	590	20	yes	no	yes	no	no	
1001.74c	0.999167	endf70a	ENDF/B-VII.0:x	2005	2500	8177	590	20	yes	no	yes	no	no	
1001.62c	0.9992	actia	ENDF/B-VI.8	1998	293.6	10128	688	150	yes	no	yes	no	no	
1001.66c	0.9992	endf66a	ENDF/B-VI.6:X	1998	293.6	10128	688	150	yes	no	yes	no	no	
1001.60c	0.9992	endf60	ENDF/B-VI.1	1989	293.6	3484	357	100	yes	no	no	no	no	
1001.50c	0.9992	rmccs	ENDF/B-V.0	1977	293.6	2766	244	20	yes	no	no	no	no	
1001.42c	0.9992	endl92	LLNL	<1992	300	1968	121	30	yes	no	no	no	no	
1001.53c	0.9992	endf5mt	ENDF/B-V.0	1977	587.2	4001	394	20	yes	no	no	no	no	1
1001.24c	0.9991	la150n	ENDF/B-VI.6	1998	293.6	10106	686	150	yes	no	yes	no	no	
1001.710nc	0.999167	ENDF71x	ENDF/B-VII.1	2005	293.6	17969	590	20.0	yes	no	yes	no	no	
1001.711nc	0.999167	ENDF71x	ENDF/B-VII.1	2005	600.0	17969	590	20.0	yes	no	yes	no	no	
1001.712nc	0.999167	ENDF71x	ENDF/B-VII.1	2005	900.0	17969	590	20.0	yes	no	yes	no	no	

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
1001.713nc	0.999167	ENDF71x	ENDF/B-VII.1	2005	1200.0	17969	590	20.0	yes	no	yes	no	no	
1001.714nc	0.999167	ENDF71x	ENDF/B-VII.1	2005	2500.0	17969	590	20.0	yes	no	yes	no	no	
1001.715nc	0.999167	ENDF71x	ENDF/B-VII.1	2005	0.1	17969	590	20.0	yes	no	yes	no	no	
1001.716nc	0.999167	ENDF71x	ENDF/B-VII.1	2005	250.0	17969	590	20.0	yes	no	yes	no	no	
H-2														
1002.80c	1.9968	ENDF71x	ENDF/B-VII.1	1997	293.6	10452	542	150.0	yes	no	yes	no	no	
1002.81c	1.9968	ENDF71x	ENDF/B-VII.1	1997	600.0	10618	557	150.0	yes	no	yes	no	no	
1002.82c	1.9968	ENDF71x	ENDF/B-VII.1	1997	900.0	10683	563	150.0	yes	no	yes	no	no	
1002.83c	1.9968	ENDF71x	ENDF/B-VII.1	1997	1200.0	10772	571	150.0	yes	no	yes	no	no	
1002.84c	1.9968	ENDF71x	ENDF/B-VII.1	1997	2500.0	10904	583	150.0	yes	no	yes	no	no	
1002.85c	1.9968	ENDF71x	ENDF/B-VII.1	1997	0.1	9704	474	150.0	yes	no	yes	no	no	
1002.86c	1.9968	ENDF71x	ENDF/B-VII.1	1997	250.0	10409	538	150.0	yes	no	yes	no	no	
1002.70c	1.9968	endf70a	ENDF/B-VII.0	1997	293.6	10452	542	150	yes	no	yes	no	no	
1002.71c	1.9968	endf70a	ENDF/B-VII.0	1997	600	10618	557	150	yes	no	yes	no	no	
1002.72c	1.9968	endf70a	ENDF/B-VII.0	1997	900	10683	563	150	yes	no	yes	no	no	
1002.73c	1.9968	endf70a	ENDF/B-VII.0	1997	1200	10772	571	150	yes	no	yes	no	no	
1002.74c	1.9968	endf70a	ENDF/B-VII.0	1997	2500	10904	583	150	yes	no	yes	no	no	
1002.66c	1.9968	endf66a	ENDF/B-VI.6	1997	293.6	10270	538	150	yes	no	yes	no	no	
1002.60c	1.9968	endf60	ENDF/B-VI.0	1967	293.6	2704	178	20	yes	no	no	no	no	2
1002.55c	1.9968	rmccs	LANL/T	1982	293.6	5981	285	20	yes	no	no	no	no	
1002.50c	1.9968	endf5p	ENDF/B-V.0	1967	293.6	3987	214	20	yes	no	no	no	no	
1002.24c	1.9968	la150n	ENDF/B-VI.6	1997	293.6	10270	538	150	yes	no	yes	no	no	
1002.710nc	1.9968	ENDF71x	ENDF/B-VII.1	1997	293.6	10452	542	150.0	yes	no	yes	no	no	
1002.711nc	1.9968	ENDF71x	ENDF/B-VII.1	1997	600.0	10618	557	150.0	yes	no	yes	no	no	
1002.712nc	1.9968	ENDF71x	ENDF/B-VII.1	1997	900.0	10683	563	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
1002.713nc	1.9968	ENDF71x	ENDF/B-VII.1	1997	1200.0	10772	571	150.0	yes	no	yes	no	no	
1002.714nc	1.9968	ENDF71x	ENDF/B-VII.1	1997	2500.0	10904	583	150.0	yes	no	yes	no	no	
1002.715nc	1.9968	ENDF71x	ENDF/B-VII.1	1997	0.1	9704	474	150.0	yes	no	yes	no	no	
1002.716nc	1.9968	ENDF71x	ENDF/B-VII.1	1997	250.0	10409	538	150.0	yes	no	yes	no	no	
H-3														
1003.80c	2.989596	ENDF71x	ENDF/B-VII.1	2001	293.6	11728	534	20.0	no	no	no	no	no	
1003.81c	2.989596	ENDF71x	ENDF/B-VII.1	2001	600.0	11828	554	20.0	no	no	no	no	no	
1003.82c	2.989596	ENDF71x	ENDF/B-VII.1	2001	900.0	11883	565	20.0	no	no	no	no	no	
1003.83c	2.989596	ENDF71x	ENDF/B-VII.1	2001	1200.0	11908	570	20.0	no	no	no	no	no	
1003.84c	2.989596	ENDF71x	ENDF/B-VII.1	2001	2500.0	11978	584	20.0	no	no	no	no	no	
1003.85c	2.989596	ENDF71x	ENDF/B-VII.1	2001	0.1	10833	355	20.0	no	no	no	no	no	
1003.86c	2.989596	ENDF71x	ENDF/B-VII.1	2001	250.0	11708	530	20.0	no	no	no	no	no	
1003.70c	2.989596	endf70a	ENDF/B-VII.0	2001	293.6	11208	469	20	no	no	no	no	no	
1003.71c	2.989596	endf70a	ENDF/B-VII.0	2001	600	11308	489	20	no	no	no	no	no	
1003.72c	2.989596	endf70a	ENDF/B-VII.0	2001	900	11363	500	20	no	no	no	no	no	
1003.73c	2.989596	endf70a	ENDF/B-VII.0	2001	1200	11388	505	20	no	no	no	no	no	
1003.74c	2.989596	endf70a	ENDF/B-VII.0	2001	2500	11458	519	20	no	no	no	no	no	
1003.69c	2.9896	t16_2003	LANL/T16	1990	293.6	11206	468	20	no	no	no	no	no	
1003.66c	2.9901	endf66a	ENDF/B-VI.0	1965	293.6	5782	389	20	no	no	no	no	no	
1003.60c	2.9901	endf60	ENDF/B-VI.0	1965	293.6	3338	180	20	no	no	no	no	no	
1003.50c	2.9901	rmccs	ENDF/B-V.0	1965	293.6	2428	184	20	no	no	no	no	no	
1003.42c	2.9901	endl92	LLNL	<1992	300	2308	52	30	no	no	no	no	no	
1003.710nc	2.989596	ENDF71x	ENDF/B-VII.1	2001	293.6	11728	534	20.0	no	no	no	no	no	
1003.711nc	2.989596	ENDF71x	ENDF/B-VII.1	2001	600.0	11828	554	20.0	no	no	no	no	no	
1003.712nc	2.989596	ENDF71x	ENDF/B-VII.1	2001	900.0	11883	565	20.0	no	no	no	no	no	

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
1003.713nc	2.989596	ENDF71x	ENDF/B-VII.1	2001	1200.0	11908	570	20.0	no	no	no	no	no	
1003.714nc	2.989596	ENDF71x	ENDF/B-VII.1	2001	2500.0	11978	584	20.0	no	no	no	no	no	
1003.715nc	2.989596	ENDF71x	ENDF/B-VII.1	2001	0.1	10833	355	20.0	no	no	no	no	no	
1003.716nc	2.989596	ENDF71x	ENDF/B-VII.1	2001	250.0	11708	530	20.0	no	no	no	no	no	
				Z = 2, helium										
He-3														
2003.80c	2.989032	ENDF71x	ENDF/B-VII.1	2011	293.6	10004	693	20.0	no	no	yes	no	no	
2003.81c	2.989032	ENDF71x	ENDF/B-VII.1	2011	600.0	10004	693	20.0	no	no	yes	no	no	
2003.82c	2.989032	ENDF71x	ENDF/B-VII.1	2011	900.0	10004	693	20.0	no	no	yes	no	no	
2003.83c	2.989032	ENDF71x	ENDF/B-VII.1	2011	1200.0	10004	693	20.0	no	no	yes	no	no	
2003.84c	2.989032	ENDF71x	ENDF/B-VII.1	2011	2500.0	10004	693	20.0	no	no	yes	no	no	
2003.85c	2.989032	ENDF71x	ENDF/B-VII.1	2011	0.1	9992	692	20.0	no	no	yes	no	no	
2003.86c	2.989032	ENDF71x	ENDF/B-VII.1	2011	250.0	10004	693	20.0	no	no	yes	no	no	
2003.70c	2.989032	endf70a	ENDF/B-VII.0	1990	293.6	9679	668	20	no	no	yes	no	no	
2003.71c	2.989032	endf70a	ENDF/B-VII.0	1990	600	9680	668	20	no	no	yes	no	no	
2003.72c	2.989032	endf70a	ENDF/B-VII.0	1990	900	9679	668	20	no	no	yes	no	no	
2003.73c	2.989032	endf70a	ENDF/B-VII.0	1990	1200	9680	668	20	no	no	yes	no	no	
2003.74c	2.989032	endf70a	ENDF/B-VII.0	1990	2500	9679	668	20	no	no	yes	no	no	
2003.66c	2.989	endf66a	ENDF/B-VI.1	1990	293.6	9679	668	20	no	no	yes	no	no	
2003.60c	2.989	endf60	ENDF/B-VI.1	1990	293.6	2834	342	20	no	no	no	no	no	
2003.50c	2.9901	rmccs	ENDF/B-V.0	1971	293.6	2320	229	20	no	no	no	no	no	
2003.42c	2.9901	endl92	LLNL	<1992	300	1477	151	30	yes	no	no	no	no	
2003.710nc	2.989032	ENDF71x	ENDF/B-VII.1	2011	293.6	10004	693	20.0	no	no	yes	no	no	
2003.711nc	2.989032	ENDF71x	ENDF/B-VII.1	2011	600.0	10004	693	20.0	no	no	yes	no	no	
2003.712nc	2.989032	ENDF71x	ENDF/B-VII.1	2011	900.0	10004	693	20.0	no	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
2003.713nc	2.989032	ENDF71x	ENDF/B-VII.1	2011	1200.0	10004	693	20.0	no	no	yes	no	no	
2003.714nc	2.989032	ENDF71x	ENDF/B-VII.1	2011	2500.0	10004	693	20.0	no	no	yes	no	no	
2003.715nc	2.989032	ENDF71x	ENDF/B-VII.1	2011	0.1	9992	692	20.0	no	no	yes	no	no	
2003.716nc	2.989032	ENDF71x	ENDF/B-VII.1	2011	250.0	10004	693	20.0	no	no	yes	no	no	
He-4														
2004.80c	3.968219	ENDF71x	ENDF/B-VII.1	2010	293.6	10421	483	20.0	no	no	no	no	no	
2004.81c	3.968219	ENDF71x	ENDF/B-VII.1	2010	600.0	10521	503	20.0	no	no	no	no	no	
2004.82c	3.968219	ENDF71x	ENDF/B-VII.1	2010	900.0	10566	512	20.0	no	no	no	no	no	
2004.83c	3.968219	ENDF71x	ENDF/B-VII.1	2010	1200.0	10606	520	20.0	no	no	no	no	no	
2004.84c	3.968219	ENDF71x	ENDF/B-VII.1	2010	2500.0	10686	536	20.0	no	no	no	no	no	
2004.85c	3.968219	ENDF71x	ENDF/B-VII.1	2010	0.1	9551	309	20.0	no	no	no	no	no	
2004.86c	3.968219	ENDF71x	ENDF/B-VII.1	2010	250.0	10401	479	20.0	no	no	no	no	no	
2004.70c	3.968219	endf70a	ENDF/B-VII.0	1973	293.6	5524	588	20	no	no	no	no	no	
2004.71c	3.968219	endf70a	ENDF/B-VII.0	1973	600	5624	608	20	no	no	no	no	no	
2004.72c	3.968219	endf70a	ENDF/B-VII.0	1973	900	5669	617	20	no	no	no	no	no	
2004.73c	3.968219	endf70a	ENDF/B-VII.0	1973	1200	5709	625	20	no	no	no	no	no	
2004.74c	3.968219	endf70a	ENDF/B-VII.0	1973	2500	5789	641	20	no	no	no	no	no	
2004.62c	3.9682	actia	ENDF/B-VI.8	1973	293.6	5524	588	20	no	no	no	no	no	
2004.66c	3.9682	endf66a	ENDF/B-VI.0:X	1973	293.6	5524	588	20	no	no	no	no	no	
2004.60c	4.0015	endf60	ENDF/B-VI.0	1973	293.6	2971	327	20	no	no	no	no	no	
2004.50c	4.0015	rmccs	ENDF/B-V.0	1973	293.6	3061	345	20	no	no	no	no	no	
2004.42c	3.9682	endl92	LLNL	<1992	300	1332	49	30	no	no	no	no	no	
2004.710nc	3.968219	ENDF71x	ENDF/B-VII.1	2010	293.6	10421	483	20.0	no	no	no	no	no	
2004.711nc	3.968219	ENDF71x	ENDF/B-VII.1	2010	600.0	10521	503	20.0	no	no	no	no	no	
2004.712nc	3.968219	ENDF71x	ENDF/B-VII.1	2010	900.0	10566	512	20.0	no	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
2004.713nc	3.968219	ENDF71x	ENDF/B-VII.1	2010	1200.0	10606	520	20.0	no	no	no	no	no	
2004.714nc	3.968219	ENDF71x	ENDF/B-VII.1	2010	2500.0	10686	536	20.0	no	no	no	no	no	
2004.715nc	3.968219	ENDF71x	ENDF/B-VII.1	2010	0.1	9551	309	20.0	no	no	no	no	no	
2004.716nc	3.968219	ENDF71x	ENDF/B-VII.1	2010	250.0	10401	479	20.0	no	no	no	no	no	
Z = 3, lithium														
Li-6														
3006.80c	5.9634	ENDF71x	ENDF/B-VII.1	2006	293.6	35810	841	20.0	yes	no	yes	no	no	
3006.81c	5.9634	ENDF71x	ENDF/B-VII.1	2006	600.0	35812	841	20.0	yes	no	yes	no	no	
3006.82c	5.9634	ENDF71x	ENDF/B-VII.1	2006	900.0	35811	841	20.0	yes	no	yes	no	no	
3006.83c	5.9634	ENDF71x	ENDF/B-VII.1	2006	1200.0	35811	841	20.0	yes	no	yes	no	no	
3006.84c	5.9634	ENDF71x	ENDF/B-VII.1	2006	2500.0	35810	841	20.0	yes	no	yes	no	no	
3006.85c	5.9634	ENDF71x	ENDF/B-VII.1	2006	0.1	35796	840	20.0	yes	no	yes	no	no	
3006.86c	5.9634	ENDF71x	ENDF/B-VII.1	2006	250.0	35810	841	20.0	yes	no	yes	no	no	
3006.70c	5.9634	endf70a	ENDF/B-VII.0	2006	293.6	35859	847	20	yes	no	yes	no	no	
3006.71c	5.9634	endf70a	ENDF/B-VII.0	2006	600	35805	843	20	yes	no	yes	no	no	
3006.72c	5.9634	endf70a	ENDF/B-VII.0	2006	900	35780	841	20	yes	no	yes	no	no	
3006.73c	5.9634	endf70a	ENDF/B-VII.0	2006	1200	35749	839	20	yes	no	yes	no	no	
3006.74c	5.9634	endf70a	ENDF/B-VII.0	2006	2500	35749	839	20	yes	no	yes	no	no	
3006.66c	5.9634	endf66a	ENDF/B-VI.1	1989	293.6	28012	870	20	yes	no	no	no	no	
3006.60c	5.9634	endf60	ENDF/B-VI.1	1989	293.6	12385	498	20	yes	no	no	no	no	
3006.50c	5.9634	rmccs	ENDF/B-V.0	1977	293.6	9932	373	20	yes	no	no	no	no	
3006.42c	5.9635	endl92	LLNL	<1992	300	7805	294	30	yes	no	no	no	no	
3006.710nc	5.9634	ENDF71x	ENDF/B-VII.1	2006	293.6	35810	841	20.0	yes	no	yes	no	no	
3006.711nc	5.9634	ENDF71x	ENDF/B-VII.1	2006	600.0	35812	841	20.0	yes	no	yes	no	no	
3006.712nc	5.9634	ENDF71x	ENDF/B-VII.1	2006	900.0	35811	841	20.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
3006.713nc	5.9634	ENDF71x	ENDF/B-VII.1	2006	1200.0	35811	841	20.0	yes	no	yes	no	no	
3006.714nc	5.9634	ENDF71x	ENDF/B-VII.1	2006	2500.0	35810	841	20.0	yes	no	yes	no	no	
3006.715nc	5.9634	ENDF71x	ENDF/B-VII.1	2006	0.1	35796	840	20.0	yes	no	yes	no	no	
3006.716nc	5.9634	ENDF71x	ENDF/B-VII.1	2006	250.0	35810	841	20.0	yes	no	yes	no	no	
Li-7														
3007.80c	6.955732	ENDF71x	ENDF/B-VII.1	1988	293.6	19687	693	20.0	yes	no	no	no	no	
3007.81c	6.955732	ENDF71x	ENDF/B-VII.1	1988	600.0	19687	693	20.0	yes	no	no	no	no	
3007.82c	6.955732	ENDF71x	ENDF/B-VII.1	1988	900.0	19687	693	20.0	yes	no	no	no	no	
3007.83c	6.955732	ENDF71x	ENDF/B-VII.1	1988	1200.0	19703	695	20.0	yes	no	no	no	no	
3007.84c	6.955732	ENDF71x	ENDF/B-VII.1	1988	2500.0	19800	707	20.0	yes	no	no	no	no	
3007.85c	6.955732	ENDF71x	ENDF/B-VII.1	1988	0.1	19679	692	20.0	yes	no	no	no	no	
3007.86c	6.955732	ENDF71x	ENDF/B-VII.1	1988	250.0	19687	693	20.0	yes	no	no	no	no	
3007.70c	6.955732	endf70a	ENDF/B-VII.0	1988	293.6	19687	693	20	yes	no	no	no	no	
3007.71c	6.955732	endf70a	ENDF/B-VII.0	1988	600	19687	693	20	yes	no	no	no	no	
3007.72c	6.955732	endf70a	ENDF/B-VII.0	1988	900	19687	693	20	yes	no	no	no	no	
3007.73c	6.955732	endf70a	ENDF/B-VII.0	1988	1200	19703	695	20	yes	no	no	no	no	
3007.74c	6.955732	endf70a	ENDF/B-VII.0	1988	2500	19800	707	20	yes	no	no	no	no	
3007.66c	6.9557	endf66a	ENDF/B-VI.0	1988	293.6	19559	677	20	yes	no	no	no	no	
3007.60c	6.9557	endf60	ENDF/B-VI.0	1988	293.6	14567	387	20	yes	no	no	no	no	
3007.55c	6.9557	rmccs	ENDF/B-V.2	1984	293.6	13171	328	20	yes	no	no	no	no	
3007.50c	6.9557	endf5p	ENDF/B-V.0	1972	293.6	4864	343	20	yes	no	no	no	no	
3007.42c	6.9557	endl92	LLNL	<1992	300	5834	141	30	yes	no	no	no	no	
3007.710nc	6.955732	ENDF71x	ENDF/B-VII.1	1988	293.6	19687	693	20.0	yes	no	no	no	no	
3007.711nc	6.955732	ENDF71x	ENDF/B-VII.1	1988	600.0	19687	693	20.0	yes	no	no	no	no	
3007.712nc	6.955732	ENDF71x	ENDF/B-VII.1	1988	900.0	19687	693	20.0	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
3007.713nc	6.955732	ENDF71x	ENDF/B-VII.1	1988	1200.0	19703	695	20.0	yes	no	no	no	no	
3007.714nc	6.955732	ENDF71x	ENDF/B-VII.1	1988	2500.0	19800	707	20.0	yes	no	no	no	no	
3007.715nc	6.955732	ENDF71x	ENDF/B-VII.1	1988	0.1	19679	692	20.0	yes	no	no	no	no	
3007.716nc	6.955732	ENDF71x	ENDF/B-VII.1	1988	250.0	19687	693	20.0	yes	no	no	no	no	
				Z = 4, beryllium										
Be-7														
4007.80c	6.9545	ENDF71x	ENDF/B-VII.1	2006	293.6	32760	750	8.1	no	no	yes	no	no	
4007.81c	6.9545	ENDF71x	ENDF/B-VII.1	2006	600.0	32899	760	8.1	no	no	yes	no	no	
4007.82c	6.9545	ENDF71x	ENDF/B-VII.1	2006	900.0	32983	766	8.1	no	no	yes	no	no	
4007.83c	6.9545	ENDF71x	ENDF/B-VII.1	2006	1200.0	32997	767	8.1	no	no	yes	no	no	
4007.84c	6.9545	ENDF71x	ENDF/B-VII.1	2006	2500.0	33039	770	8.1	no	no	yes	no	no	
4007.85c	6.9545	ENDF71x	ENDF/B-VII.1	2006	0.1	30926	619	8.1	no	no	yes	no	no	
4007.86c	6.9545	ENDF71x	ENDF/B-VII.1	2006	250.0	32773	751	8.1	no	no	yes	no	no	
4007.42c	6.9567	endl92	LLNL	<1992	300	1544	127	30	yes	no	no	no	no	
4007.710nc	6.9545	ENDF71x	ENDF/B-VII.1	2006	293.6	32760	750	8.1	no	no	yes	no	no	
4007.711nc	6.9545	ENDF71x	ENDF/B-VII.1	2006	600.0	32899	760	8.1	no	no	yes	no	no	
4007.712nc	6.9545	ENDF71x	ENDF/B-VII.1	2006	900.0	32983	766	8.1	no	no	yes	no	no	
4007.713nc	6.9545	ENDF71x	ENDF/B-VII.1	2006	1200.0	32997	767	8.1	no	no	yes	no	no	
4007.714nc	6.9545	ENDF71x	ENDF/B-VII.1	2006	2500.0	33039	770	8.1	no	no	yes	no	no	
4007.715nc	6.9545	ENDF71x	ENDF/B-VII.1	2006	0.1	30926	619	8.1	no	no	yes	no	no	
4007.716nc	6.9545	ENDF71x	ENDF/B-VII.1	2006	250.0	32773	751	8.1	no	no	yes	no	no	
Be-9														
4009.80c	8.93478	ENDF71x	ENDF/B-VII.1	2006	293.6	580783	644	20.0	yes	no	yes	no	no	
4009.81c	8.93478	ENDF71x	ENDF/B-VII.1	2006	600.0	580785	644	20.0	yes	no	yes	no	no	
4009.82c	8.93478	ENDF71x	ENDF/B-VII.1	2006	900.0	580783	644	20.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
4009.83c	8.93478	ENDF71x	ENDF/B-VII.1	2006	1200.0	580783	644	20.0	yes	no	yes	no	no	
4009.84c	8.93478	ENDF71x	ENDF/B-VII.1	2006	2500.0	580783	644	20.0	yes	no	yes	no	no	
4009.85c	8.93478	ENDF71x	ENDF/B-VII.1	2006	0.1	580791	645	20.0	yes	no	yes	no	no	
4009.86c	8.93478	ENDF71x	ENDF/B-VII.1	2006	250.0	580782	644	20.0	yes	no	yes	no	no	
4009.70c	8.93478	endf70a	ENDF/B-VII.0	2006	293.6	579815	556	20	yes	no	yes	no	no	
4009.71c	8.93478	endf70a	ENDF/B-VII.0	2006	600	579822	557	20	yes	no	yes	no	no	
4009.72c	8.93478	endf70a	ENDF/B-VII.0	2006	900	579816	556	20	yes	no	yes	no	no	
4009.73c	8.93478	endf70a	ENDF/B-VII.0	2006	1200	579815	556	20	yes	no	yes	no	no	
4009.74c	8.93478	endf70a	ENDF/B-VII.0	2006	2500	579799	554	20	yes	no	yes	no	no	
4009.62c	8.9348	actia	ENDF/B-VI.8	2000	293.6	115407	514	20	yes	no	yes	no	no	
4009.66c	8.9348	endf66a	ENDF/B-VI.0	1986	293.6	113907	538	20	yes	no	yes	no	no	
4009.60c	8.9348	endf60	ENDF/B-VI.0	1986	293.6	64410	276	20	yes	no	no	no	no	
4009.50c	8.9348	rmccs	ENDF/B-V.0	1976	293.6	8886	329	20	yes	no	no	no	no	
4009.21c	8.9348	100xs	LANL/T:X	1989	300	28964	316	100	yes	no	no	no	no	3
4009.24c	8.9347	la150n	LANL	1989	293.6	68468	619	100	yes	no	yes	no	no	
4009.710nc	8.93478	ENDF71x	ENDF/B-VII.1	2006	293.6	580783	644	20.0	yes	no	yes	no	no	
4009.711nc	8.93478	ENDF71x	ENDF/B-VII.1	2006	600.0	580785	644	20.0	yes	no	yes	no	no	
4009.712nc	8.93478	ENDF71x	ENDF/B-VII.1	2006	900.0	580783	644	20.0	yes	no	yes	no	no	
4009.713nc	8.93478	ENDF71x	ENDF/B-VII.1	2006	1200.0	580783	644	20.0	yes	no	yes	no	no	
4009.714nc	8.93478	ENDF71x	ENDF/B-VII.1	2006	2500.0	580783	644	20.0	yes	no	yes	no	no	
4009.715nc	8.93478	ENDF71x	ENDF/B-VII.1	2006	0.1	580791	645	20.0	yes	no	yes	no	no	
4009.716nc	8.93478	ENDF71x	ENDF/B-VII.1	2006	250.0	580782	644	20.0	yes	no	yes	no	no	
Z = 5, boron														
B-10														
5010.80c	9.926921	ENDF71x	ENDF/B-VII.1	2006	293.6	54513	934	20.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
5010.81c	9.926921	ENDF71x	ENDF/B-VII.1	2006	600.0	54513	934	20.0	yes	no	yes	no	no	
5010.82c	9.926921	ENDF71x	ENDF/B-VII.1	2006	900.0	54514	934	20.0	yes	no	yes	no	no	
5010.83c	9.926921	ENDF71x	ENDF/B-VII.1	2006	1200.0	54513	934	20.0	yes	no	yes	no	no	
5010.84c	9.926921	ENDF71x	ENDF/B-VII.1	2006	2500.0	54513	934	20.0	yes	no	yes	no	no	
5010.85c	9.926921	ENDF71x	ENDF/B-VII.1	2006	0.1	54494	933	20.0	yes	no	yes	no	no	
5010.86c	9.926921	ENDF71x	ENDF/B-VII.1	2006	250.0	54513	934	20.0	yes	no	yes	no	no	
5010.70c	9.926921	endf70a	ENDF/B-VII.0	2006	293.6	54514	934	20	yes	no	yes	no	no	
5010.71c	9.926921	endf70a	ENDF/B-VII.0	2006	600	54542	935	20	yes	no	yes	no	no	
5010.72c	9.926921	endf70a	ENDF/B-VII.0	2006	900	54513	934	20	yes	no	yes	no	no	
5010.73c	9.926921	endf70a	ENDF/B-VII.0	2006	1200	54514	934	20	yes	no	yes	no	no	
5010.74c	9.926921	endf70a	ENDF/B-VII.0	2006	2500	54513	934	20	yes	no	yes	no	no	
5010.66c	9.9269	endf66a	ENDF/B-VI.1	1989	293.6	51569	1035	20	yes	no	no	no	no	
5010.60c	9.9269	endf60	ENDF/B-VI.1	1989	293.6	27957	673	20	yes	no	no	no	no	
5010.50c	9.9269	rmccs	ENDF/B-V.0	1977	293.6	20200	514	20	yes	no	no	no	no	
5010.42c	9.9269	endl92	LLNL	<1992	300	4733	175	30	yes	no	no	no	no	
5010.53c	9.9269	endf5mt	ENDF/B-V.0	1977	587.2	23676	700	20	yes	no	no	no	no	1
5010.710nc	9.926921	ENDF71x	ENDF/B-VII.1	2006	293.6	54513	934	20.0	yes	no	yes	no	no	
5010.711nc	9.926921	ENDF71x	ENDF/B-VII.1	2006	600.0	54513	934	20.0	yes	no	yes	no	no	
5010.712nc	9.926921	ENDF71x	ENDF/B-VII.1	2006	900.0	54514	934	20.0	yes	no	yes	no	no	
5010.713nc	9.926921	ENDF71x	ENDF/B-VII.1	2006	1200.0	54513	934	20.0	yes	no	yes	no	no	
5010.714nc	9.926921	ENDF71x	ENDF/B-VII.1	2006	2500.0	54513	934	20.0	yes	no	yes	no	no	
5010.715nc	9.926921	ENDF71x	ENDF/B-VII.1	2006	0.1	54494	933	20.0	yes	no	yes	no	no	
5010.716nc	9.926921	ENDF71x	ENDF/B-VII.1	2006	250.0	54513	934	20.0	yes	no	yes	no	no	
B-11														
5011.80c	10.9147	ENDF71x	ENDF/B-VII.1	1989	293.6	150161	3489	20.0	yes	no	yes	no	no	

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
5011.81c	10.9147	ENDF71x	ENDF/B-VII.1	1989	600.0	150201	3494	20.0	yes	no	yes	no	no	
5011.82c	10.9147	ENDF71x	ENDF/B-VII.1	1989	900.0	150160	3489	20.0	yes	no	yes	no	no	
5011.83c	10.9147	ENDF71x	ENDF/B-VII.1	1989	1200.0	150161	3489	20.0	yes	no	yes	no	no	
5011.84c	10.9147	ENDF71x	ENDF/B-VII.1	1989	2500.0	150032	3473	20.0	yes	no	yes	no	no	
5011.85c	10.9147	ENDF71x	ENDF/B-VII.1	1989	0.1	149816	3446	20.0	yes	no	yes	no	no	
5011.86c	10.9147	ENDF71x	ENDF/B-VII.1	1989	250.0	150184	3492	20.0	yes	no	yes	no	no	
5011.70c	10.9147	endf70a	ENDF/B-VII.0	1989	293.6	150161	3489	20	yes	no	yes	no	no	
5011.71c	10.9147	endf70a	ENDF/B-VII.0	1989	600	150202	3494	20	yes	no	yes	no	no	
5011.72c	10.9147	endf70a	ENDF/B-VII.0	1989	900	150160	3489	20	yes	no	yes	no	no	
5011.73c	10.9147	endf70a	ENDF/B-VII.0	1989	1200	150160	3489	20	yes	no	yes	no	no	
5011.74c	10.9147	endf70a	ENDF/B-VII.0	1989	2500	150033	3473	20	yes	no	yes	no	no	
5011.66c	10.9147	endf66a	ENDF/B-VI.0:X	1989	293.6	149785	3442	20	yes	no	yes	no	no	
5011.60c	10.9147	endf60	ENDF/B-VI.0	1989	293.6	108351	2969	20	yes	no	no	no	no	
5011.56c	10.9147	newxs	LANL/T	1986	293.6	56929	1762	20	yes	no	no	no	no	
5011.55c	10.915	rmccsa	ENDF/B-V.0:T	1971	293.6	12254	860	20	yes	no	no	no	no	4
5011.50c	10.915	endf5p	ENDF/B-V.0	1974	293.6	4344	487	20	no	no	no	no	no	
5011.42c	10.9147	endl92	LLNL	<1992	300	4285	244	30	yes	no	no	no	no	
5011.710nc	10.9147	ENDF71x	ENDF/B-VII.1	1989	293.6	150161	3489	20.0	yes	no	yes	no	no	
5011.711nc	10.9147	ENDF71x	ENDF/B-VII.1	1989	600.0	150201	3494	20.0	yes	no	yes	no	no	
5011.712nc	10.9147	ENDF71x	ENDF/B-VII.1	1989	900.0	150160	3489	20.0	yes	no	yes	no	no	
5011.713nc	10.9147	ENDF71x	ENDF/B-VII.1	1989	1200.0	150161	3489	20.0	yes	no	yes	no	no	
5011.714nc	10.9147	ENDF71x	ENDF/B-VII.1	1989	2500.0	150032	3473	20.0	yes	no	yes	no	no	
5011.715nc	10.9147	ENDF71x	ENDF/B-VII.1	1989	0.1	149816	3446	20.0	yes	no	yes	no	no	
5011.716nc	10.9147	ENDF71x	ENDF/B-VII.1	1989	250.0	150184	3492	20.0	yes	no	yes	no	no	
					Z = 6, carbon									

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
C-0														
6000.80c	11.898	ENDF71x	ENDF/B-VII.1	2011	293.6	79690	1326	150.0	yes	no	yes	no	no	
6000.81c	11.898	ENDF71x	ENDF/B-VII.1	2011	600.0	79689	1326	150.0	yes	no	yes	no	no	
6000.82c	11.898	ENDF71x	ENDF/B-VII.1	2011	900.0	79682	1325	150.0	yes	no	yes	no	no	
6000.83c	11.898	ENDF71x	ENDF/B-VII.1	2011	1200.0	79681	1325	150.0	yes	no	yes	no	no	
6000.84c	11.898	ENDF71x	ENDF/B-VII.1	2011	2500.0	79705	1328	150.0	yes	no	yes	no	no	
6000.85c	11.898	ENDF71x	ENDF/B-VII.1	2011	0.1	79682	1325	150.0	yes	no	yes	no	no	
6000.86c	11.898	ENDF71x	ENDF/B-VII.1	2011	250.0	79690	1326	150.0	yes	no	yes	no	no	
6000.70c	11.898	endf70a	ENDF/B-VII.0	1996	293.6	79358	1303	150	yes	no	yes	no	no	
6000.71c	11.898	endf70a	ENDF/B-VII.0	1996	600	79357	1303	150	yes	no	yes	no	no	
6000.72c	11.898	endf70a	ENDF/B-VII.0	1996	900	79350	1302	150	yes	no	yes	no	no	
6000.73c	11.898	endf70a	ENDF/B-VII.0	1996	1200	79349	1302	150	yes	no	yes	no	no	
6000.74c	11.898	endf70a	ENDF/B-VII.0	1996	2500	79405	1309	150	yes	no	yes	no	no	
6000.66c	11.898	endf66a	ENDF/B-VI.6	1996	293.6	79070	1267	150	yes	no	yes	no	no	
6000.60c	11.898	endf60	ENDF/B-VI.1	1989	293.6	22422	978	32	yes	no	no	no	no	
6000.50c	11.8969	rmccs	ENDF/B-V.0	1977	293.6	23326	875	20	yes	no	no	no	no	
6000.24c	11.898	la150n	ENDF/B-VI.6	1996	293.6	79070	1267	150	yes	no	yes	no	no	
6000.710nc	11.898	ENDF71x	ENDF/B-VII.1	2011	293.6	79690	1326	150.0	yes	no	yes	no	no	
6000.711nc	11.898	ENDF71x	ENDF/B-VII.1	2011	600.0	79689	1326	150.0	yes	no	yes	no	no	
6000.712nc	11.898	ENDF71x	ENDF/B-VII.1	2011	900.0	79682	1325	150.0	yes	no	yes	no	no	
6000.713nc	11.898	ENDF71x	ENDF/B-VII.1	2011	1200.0	79681	1325	150.0	yes	no	yes	no	no	
6000.714nc	11.898	ENDF71x	ENDF/B-VII.1	2011	2500.0	79705	1328	150.0	yes	no	yes	no	no	
6000.715nc	11.898	ENDF71x	ENDF/B-VII.1	2011	0.1	79682	1325	150.0	yes	no	yes	no	no	
6000.716nc	11.898	ENDF71x	ENDF/B-VII.1	2011	250.0	79690	1326	150.0	yes	no	yes	no	no	
C-12														

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
6012.50c	11.8969	rmccs	ENDF/B-V.0	1977	293.6	23326	875	20	yes	no	no	no	no	5
6012.21c	11.8969	100xs	LANL/T:X	1989	300	28809	919	100	yes	no	no	no	no	3
6012.42c	11.8969	endl92	LLNL	<1992	300	6229	191	30	yes	no	no	no	no	
C-13														
6013.42c	12.8916	endl92	LLNL	<1992	300	5993	429	30	yes	no	no	no	no	

Z = 7, nitrogen

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
N-14														
7014.80c	13.88278	ENDF71x	ENDF/B-VII.1	2000	293.6	145366	1826	150.0	yes	no	yes	no	no	
7014.81c	13.88278	ENDF71x	ENDF/B-VII.1	2000	600.0	145364	1826	150.0	yes	no	yes	no	no	
7014.82c	13.88278	ENDF71x	ENDF/B-VII.1	2000	900.0	145366	1826	150.0	yes	no	yes	no	no	
7014.83c	13.88278	ENDF71x	ENDF/B-VII.1	2000	1200.0	145364	1826	150.0	yes	no	yes	no	no	
7014.84c	13.88278	ENDF71x	ENDF/B-VII.1	2000	2500.0	145364	1826	150.0	yes	no	yes	no	no	
7014.85c	13.88278	ENDF71x	ENDF/B-VII.1	2000	0.1	145364	1826	150.0	yes	no	yes	no	no	
7014.86c	13.88278	ENDF71x	ENDF/B-VII.1	2000	250.0	145364	1826	150.0	yes	no	yes	no	no	
7014.70c	13.88278	endf70a	ENDF/B-VII.0	2000	293.6	145379	1826	150	yes	no	yes	no	no	
7014.71c	13.88278	endf70a	ENDF/B-VII.0	2000	600	145463	1826	150	yes	no	yes	no	no	
7014.72c	13.88278	endf70a	ENDF/B-VII.0	2000	900	145376	1826	150	yes	no	yes	no	no	
7014.73c	13.88278	endf70a	ENDF/B-VII.0	2000	1200	145462	1826	150	yes	no	yes	no	no	
7014.74c	13.88278	endf70a	ENDF/B-VII.0	2000	2500	145475	1826	150	yes	no	yes	no	no	
7014.62c	13.8828	actia	ENDF/B-VI.8	2000	293.6	145340	1824	150	yes	no	yes	no	no	
7014.66c	13.8828	endf66a	ENDF/B-VI.6	1997	293.6	144740	1824	150	yes	no	yes	no	no	
7014.60c	13.8828	endf60	LANL/T	1992	293.6	60397	1379	20	yes	no	no	no	no	
7014.50c	13.883	rmccs	ENDF/B-V.0	1973	293.6	45457	1196	20	yes	no	no	no	no	
7014.42c	13.8828	endl92	LLNL	<1992	300	20528	770	30	yes	no	no	no	no	
7014.24c	13.8827	la150n	ENDF/B-VI.6	1997	293.6	144740	1824	150	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
7014.710nc	13.88278	ENDF71x	ENDF/B-VII.1	2000	293.6	145366	1826	150.0	yes	no	yes	no	no	
7014.711nc	13.88278	ENDF71x	ENDF/B-VII.1	2000	600.0	145364	1826	150.0	yes	no	yes	no	no	
7014.712nc	13.88278	ENDF71x	ENDF/B-VII.1	2000	900.0	145366	1826	150.0	yes	no	yes	no	no	
7014.713nc	13.88278	ENDF71x	ENDF/B-VII.1	2000	1200.0	145364	1826	150.0	yes	no	yes	no	no	
7014.714nc	13.88278	ENDF71x	ENDF/B-VII.1	2000	2500.0	145364	1826	150.0	yes	no	yes	no	no	
7014.715nc	13.88278	ENDF71x	ENDF/B-VII.1	2000	0.1	145364	1826	150.0	yes	no	yes	no	no	
7014.716nc	13.88278	ENDF71x	ENDF/B-VII.1	2000	250.0	145364	1826	150.0	yes	no	yes	no	no	
N-15														
7015.80c	14.871	ENDF71x	ENDF/B-VII.1	1983	293.6	31819	888	20.0	yes	no	no	no	no	
7015.81c	14.871	ENDF71x	ENDF/B-VII.1	1983	600.0	31939	903	20.0	yes	no	no	no	no	
7015.82c	14.871	ENDF71x	ENDF/B-VII.1	1983	900.0	32002	911	20.0	yes	no	no	no	no	
7015.83c	14.871	ENDF71x	ENDF/B-VII.1	1983	1200.0	32051	917	20.0	yes	no	no	no	no	
7015.84c	14.871	ENDF71x	ENDF/B-VII.1	1983	2500.0	32226	939	20.0	yes	no	no	no	no	
7015.85c	14.871	ENDF71x	ENDF/B-VII.1	1983	0.1	30971	782	20.0	yes	no	no	no	no	
7015.86c	14.871	ENDF71x	ENDF/B-VII.1	1983	250.0	31794	885	20.0	yes	no	no	no	no	
7015.70c	14.871	endf70a	ENDF/B-VII.0	1983	293.6	31819	888	20	yes	no	no	no	no	
7015.71c	14.871	endf70a	ENDF/B-VII.0	1983	600	31940	903	20	yes	no	no	no	no	
7015.72c	14.871	endf70a	ENDF/B-VII.0	1983	900	32002	911	20	yes	no	no	no	no	
7015.73c	14.871	endf70a	ENDF/B-VII.0	1983	1200	32051	917	20	yes	no	no	no	no	
7015.74c	14.871	endf70a	ENDF/B-VII.0	1983	2500	32226	939	20	yes	no	no	no	no	
7015.66c	14.871	endf66a	ENDF/B-VI.0	1993	293.6	31755	880	20	yes	no	no	no	no	
7015.60c	14.871	endf60	ENDF/B-VI.0	1993	293.6	24410	653	20	yes	no	no	no	no	
7015.55c	14.871	rmccsa	LANL/T	1983	293.6	20920	744	20	yes	no	no	no	no	
7015.42c	14.8713	endl92	LLNL	<1992	300	22590	352	30	yes	no	no	no	no	
7015.710nc	14.871	ENDF71x	ENDF/B-VII.1	1983	293.6	31819	888	20.0	yes	no	no	no	no	

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Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
7015.711nc	14.871	ENDF71x	ENDF/B-VII.1	1983	600.0	31939	903	20.0	yes	no	no	no	no	
7015.712nc	14.871	ENDF71x	ENDF/B-VII.1	1983	900.0	32002	911	20.0	yes	no	no	no	no	
7015.713nc	14.871	ENDF71x	ENDF/B-VII.1	1983	1200.0	32051	917	20.0	yes	no	no	no	no	
7015.714nc	14.871	ENDF71x	ENDF/B-VII.1	1983	2500.0	32226	939	20.0	yes	no	no	no	no	
7015.715nc	14.871	ENDF71x	ENDF/B-VII.1	1983	0.1	30971	782	20.0	yes	no	no	no	no	
7015.716nc	14.871	ENDF71x	ENDF/B-VII.1	1983	250.0	31794	885	20.0	yes	no	no	no	no	
				Z = 8, oxygen										
O-16														
8016.80c	15.85751	ENDF71x	ENDF/B-VII.1	2011	293.6	409202	2917	150.0	yes	no	yes	no	no	
8016.81c	15.85751	ENDF71x	ENDF/B-VII.1	2011	600.0	409329	2933	150.0	yes	no	yes	no	no	
8016.82c	15.85751	ENDF71x	ENDF/B-VII.1	2011	900.0	409395	2941	150.0	yes	no	yes	no	no	
8016.83c	15.85751	ENDF71x	ENDF/B-VII.1	2011	1200.0	409433	2946	150.0	yes	no	yes	no	no	
8016.84c	15.85751	ENDF71x	ENDF/B-VII.1	2011	2500.0	409553	2961	150.0	yes	no	yes	no	no	
8016.85c	15.85751	ENDF71x	ENDF/B-VII.1	2011	0.1	408746	2860	150.0	yes	no	yes	no	no	
8016.86c	15.85751	ENDF71x	ENDF/B-VII.1	2011	250.0	409170	2913	150.0	yes	no	yes	no	no	
8016.70c	15.85751	endf70a	ENDF/B-VII.0	2005	293.6	408681	2849	150	yes	no	yes	no	no	
8016.71c	15.85751	endf70a	ENDF/B-VII.0	2005	600	408936	2865	150	yes	no	yes	no	no	
8016.72c	15.85751	endf70a	ENDF/B-VII.0	2005	900	409004	2873	150	yes	no	yes	no	no	
8016.73c	15.85751	endf70a	ENDF/B-VII.0	2005	1200	408912	2878	150	yes	no	yes	no	no	
8016.74c	15.85751	endf70a	ENDF/B-VII.0	2005	2500	409028	2893	150	yes	no	yes	no	no	
8016.62c	15.8575	actia	ENDF/B-VI.8	2000	293.6	407432	2759	150	yes	no	yes	no	no	
8016.66c	15.8532	endf66a	ENDF/B-VI.6	1996	293.6	164461	1935	150	yes	no	yes	no	no	
8016.60c	15.8532	endf60	ENDF/B-VI.0	1990	293.6	58253	1609	20	yes	no	no	no	no	
8016.50c	15.858	rmccs	ENDF/B-V.0	1972	293.6	37942	1391	20	yes	no	no	no	no	
8016.21c	15.8575	100xs	LANL/T:X	1989	300	45016	1427	100	yes	no	no	no	no	3

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Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
8016.42c	15.8575	endl92	LLNL	<1992	300	9551	337	30	yes	no	no	no	no	
8016.53c	15.858	endf5mt	ENDF/B-V.0	1972	587.2	37989	1398	20	yes	no	no	no	no	1
8016.54c	15.858	endf5mt	ENDF/B-V.0	1972	880.8	38017	1402	20	yes	no	no	no	no	1
8016.24c	15.8531	la150n	ENDF/B-VI.6	1996	293.6	164461	1935	150	yes	no	yes	no	no	
8016.710nc	15.85751	ENDF71x	ENDF/B-VII.1	2011	293.6	409202	2917	150.0	yes	no	yes	no	no	
8016.711nc	15.85751	ENDF71x	ENDF/B-VII.1	2011	600.0	409329	2933	150.0	yes	no	yes	no	no	
8016.712nc	15.85751	ENDF71x	ENDF/B-VII.1	2011	900.0	409395	2941	150.0	yes	no	yes	no	no	
8016.713nc	15.85751	ENDF71x	ENDF/B-VII.1	2011	1200.0	409433	2946	150.0	yes	no	yes	no	no	
8016.714nc	15.85751	ENDF71x	ENDF/B-VII.1	2011	2500.0	409553	2961	150.0	yes	no	yes	no	no	
8016.715nc	15.85751	ENDF71x	ENDF/B-VII.1	2011	0.1	408746	2860	150.0	yes	no	yes	no	no	
8016.716nc	15.85751	ENDF71x	ENDF/B-VII.1	2011	250.0	409170	2913	150.0	yes	no	yes	no	no	
O-17														
8017.80c	16.8531	ENDF71x	ENDF/B-VII.1	1978	293.6	8169	620	20.0	no	no	no	no	no	
8017.81c	16.8531	ENDF71x	ENDF/B-VII.1	1978	600.0	8170	620	20.0	no	no	no	no	no	
8017.82c	16.8531	ENDF71x	ENDF/B-VII.1	1978	900.0	8170	620	20.0	no	no	no	no	no	
8017.83c	16.8531	ENDF71x	ENDF/B-VII.1	1978	1200.0	8170	620	20.0	no	no	no	no	no	
8017.84c	16.8531	ENDF71x	ENDF/B-VII.1	1978	2500.0	8170	620	20.0	no	no	no	no	no	
8017.85c	16.8531	ENDF71x	ENDF/B-VII.1	1978	0.1	8169	620	20.0	no	no	no	no	no	
8017.86c	16.8531	ENDF71x	ENDF/B-VII.1	1978	250.0	8169	620	20.0	no	no	no	no	no	
8017.70c	16.8531	endf70a	ENDF/B-VII.0	1978	293.6	8169	620	20	no	no	no	no	no	
8017.71c	16.8531	endf70a	ENDF/B-VII.0	1978	600	8169	620	20	no	no	no	no	no	
8017.72c	16.8531	endf70a	ENDF/B-VII.0	1978	900	8169	620	20	no	no	no	no	no	
8017.73c	16.8531	endf70a	ENDF/B-VII.0	1978	1200	8170	620	20	no	no	no	no	no	
8017.74c	16.8531	endf70a	ENDF/B-VII.0	1978	2500	8169	620	20	no	no	no	no	no	
8017.66c	16.8531	endf66a	ENDF/B-VI.0	1978	293.6	8097	612	20	no	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
8017.60c	16.8531	endf60	ENDF/B-VI.0	1978	293.6	4200	335	20	no	no	no	no	no	
8017.710nc	16.8531	ENDF71x	ENDF/B-VII.1	1978	293.6	8169	620	20.0	no	no	no	no	no	
8017.711nc	16.8531	ENDF71x	ENDF/B-VII.1	1978	600.0	8170	620	20.0	no	no	no	no	no	
8017.712nc	16.8531	ENDF71x	ENDF/B-VII.1	1978	900.0	8170	620	20.0	no	no	no	no	no	
8017.713nc	16.8531	ENDF71x	ENDF/B-VII.1	1978	1200.0	8170	620	20.0	no	no	no	no	no	
8017.714nc	16.8531	ENDF71x	ENDF/B-VII.1	1978	2500.0	8170	620	20.0	no	no	no	no	no	
8017.715nc	16.8531	ENDF71x	ENDF/B-VII.1	1978	0.1	8169	620	20.0	no	no	no	no	no	
8017.716nc	16.8531	ENDF71x	ENDF/B-VII.1	1978	250.0	8169	620	20.0	no	no	no	no	no	
				Z = 9, fluorine										
F-19														
9019.80c	18.835	ENDF71x	ENDF/B-VII.1	2003	293.6	130477	2322	20.0	yes	no	yes	no	no	
9019.81c	18.835	ENDF71x	ENDF/B-VII.1	2003	600.0	130534	2329	20.0	yes	no	yes	no	no	
9019.82c	18.835	ENDF71x	ENDF/B-VII.1	2003	900.0	130573	2334	20.0	yes	no	yes	no	no	
9019.83c	18.835	ENDF71x	ENDF/B-VII.1	2003	1200.0	130662	2345	20.0	yes	no	yes	no	no	
9019.84c	18.835	ENDF71x	ENDF/B-VII.1	2003	2500.0	130661	2345	20.0	yes	no	yes	no	no	
9019.85c	18.835	ENDF71x	ENDF/B-VII.1	2003	0.1	129780	2235	20.0	yes	no	yes	no	no	
9019.86c	18.835	ENDF71x	ENDF/B-VII.1	2003	250.0	130477	2322	20.0	yes	no	yes	no	no	
9019.70c	18.835	endf70a	ENDF/B-VII.0	2003	293.6	130477	2322	20	yes	no	yes	no	no	
9019.71c	18.835	endf70a	ENDF/B-VII.0	2003	600	130534	2329	20	yes	no	yes	no	no	
9019.72c	18.835	endf70a	ENDF/B-VII.0	2003	900	130573	2334	20	yes	no	yes	no	no	
9019.73c	18.835	endf70a	ENDF/B-VII.0	2003	1200	130662	2345	20	yes	no	yes	no	no	
9019.74c	18.835	endf70a	ENDF/B-VII.0	2003	2500	130661	2345	20	yes	no	yes	no	no	
9019.62c	18.835	actia	ENDF/B-VI.8	2000	293.6	127005	1888	20	yes	no	yes	no	no	
9019.66c	18.835	endf66a	ENDF/B-VI.0:X	1990	293.6	122324	1870	20	yes	no	yes	no	no	
9019.60c	18.835	endf60	ENDF/B-VI.0	1990	300	93826	1433	20	yes	no	no	no	no	

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
9019.51c	18.835	rmccs	ENDF/B-V.0	1976	293.6	41442	1541	20	yes	no	no	no	no	
9019.50c	18.835	endf5p	ENDF/B-V.0	1976	293.6	44130	1569	20	yes	no	no	no	no	
9019.42c	18.8352	endl92	LLNL	<1992	300	37814	1118	30	yes	no	no	no	no	
9019.710nc	18.835	ENDF71x	ENDF/B-VII.1	2003	293.6	130477	2322	20.0	yes	no	yes	no	no	
9019.711nc	18.835	ENDF71x	ENDF/B-VII.1	2003	600.0	130534	2329	20.0	yes	no	yes	no	no	
9019.712nc	18.835	ENDF71x	ENDF/B-VII.1	2003	900.0	130573	2334	20.0	yes	no	yes	no	no	
9019.713nc	18.835	ENDF71x	ENDF/B-VII.1	2003	1200.0	130662	2345	20.0	yes	no	yes	no	no	
9019.714nc	18.835	ENDF71x	ENDF/B-VII.1	2003	2500.0	130661	2345	20.0	yes	no	yes	no	no	
9019.715nc	18.835	ENDF71x	ENDF/B-VII.1	2003	0.1	129780	2235	20.0	yes	no	yes	no	no	
9019.716nc	18.835	ENDF71x	ENDF/B-VII.1	2003	250.0	130477	2322	20.0	yes	no	yes	no	no	
				Z = 10, neon										
Ne-20														
10020.42c	19.8207	endl92	LLNL	<1992	300	14286	1011	30	yes	no	no	no	no	
				Z = 11, sodium										
Na-22														
11022.80c	21.8055	ENDF71x	ENDF/B-VII.1	1992	293.6	16993	1027	20.0	no	no	no	no	no	
11022.81c	21.8055	ENDF71x	ENDF/B-VII.1	1992	600.0	16058	942	20.0	no	no	no	no	no	
11022.82c	21.8055	ENDF71x	ENDF/B-VII.1	1992	900.0	15706	910	20.0	no	no	no	no	no	
11022.83c	21.8055	ENDF71x	ENDF/B-VII.1	1992	1200.0	15432	885	20.0	no	no	no	no	no	
11022.84c	21.8055	ENDF71x	ENDF/B-VII.1	1992	2500.0	15245	868	20.0	no	no	no	no	no	
11022.85c	21.8055	ENDF71x	ENDF/B-VII.1	1992	0.1	17961	1115	20.0	no	no	no	no	no	
11022.86c	21.8055	ENDF71x	ENDF/B-VII.1	1992	250.0	17114	1038	20.0	no	no	no	no	no	
11022.70c	21.8055	endf70a	ENDF/B-VII.0	1992	293.6	17687	1089	20	no	no	no	no	no	
11022.71c	21.8055	endf70a	ENDF/B-VII.0	1992	600	16895	1017	20	no	no	no	no	no	
11022.72c	21.8055	endf70a	ENDF/B-VII.0	1992	900	16642	994	20	no	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
11022.73c	21.8055	endf70a	ENDF/B-VII.0	1992	1200	16346	967	20	no	no	no	no	no	
11022.74c	21.8055	endf70a	ENDF/B-VII.0	1992	2500	16170	951	20	no	no	no	no	no	
11022.710nc	21.8055	ENDF71x	ENDF/B-VII.1	1992	293.6	16993	1027	20.0	no	no	no	no	no	
11022.711nc	21.8055	ENDF71x	ENDF/B-VII.1	1992	600.0	16058	942	20.0	no	no	no	no	no	
11022.712nc	21.8055	ENDF71x	ENDF/B-VII.1	1992	900.0	15706	910	20.0	no	no	no	no	no	
11022.713nc	21.8055	ENDF71x	ENDF/B-VII.1	1992	1200.0	15432	885	20.0	no	no	no	no	no	
11022.714nc	21.8055	ENDF71x	ENDF/B-VII.1	1992	2500.0	15245	868	20.0	no	no	no	no	no	
11022.715nc	21.8055	ENDF71x	ENDF/B-VII.1	1992	0.1	17961	1115	20.0	no	no	no	no	no	
11022.716nc	21.8055	ENDF71x	ENDF/B-VII.1	1992	250.0	17114	1038	20.0	no	no	no	no	no	
Na-23														
11023.80c	22.792	ENDF71x	ENDF/B-VII.1	2000	293.6	71674	3503	20.0	yes	no	no	no	no	
11023.81c	22.792	ENDF71x	ENDF/B-VII.1	2000	600.0	71330	3460	20.0	yes	no	no	no	no	
11023.82c	22.792	ENDF71x	ENDF/B-VII.1	2000	900.0	71282	3454	20.0	yes	no	no	no	no	
11023.83c	22.792	ENDF71x	ENDF/B-VII.1	2000	1200.0	71106	3432	20.0	yes	no	no	no	no	
11023.84c	22.792	ENDF71x	ENDF/B-VII.1	2000	2500.0	70721	3384	20.0	yes	no	no	no	no	
11023.85c	22.792	ENDF71x	ENDF/B-VII.1	2000	0.1	72785	3642	20.0	yes	no	no	no	no	
11023.86c	22.792	ENDF71x	ENDF/B-VII.1	2000	250.0	71817	3521	20.0	yes	no	no	no	no	
11023.70c	22.792	endf70a	ENDF/B-VII.0	2000	293.6	71674	3503	20	yes	no	no	no	no	
11023.71c	22.792	endf70a	ENDF/B-VII.0	2000	600	71329	3460	20	yes	no	no	no	no	
11023.72c	22.792	endf70a	ENDF/B-VII.0	2000	900	71281	3454	20	yes	no	no	no	no	
11023.73c	22.792	endf70a	ENDF/B-VII.0	2000	1200	71105	3432	20	yes	no	no	no	no	
11023.74c	22.792	endf70a	ENDF/B-VII.0	2000	2500	70721	3384	20	yes	no	no	no	no	
11023.62c	22.792	actia	ENDF/B-VI.8	2000	293.6	69562	3239	20	yes	no	no	no	no	
11023.66c	22.792	endf66a	ENDF/B-VI.1	1977	293.6	64249	3239	20	yes	no	no	no	no	
11023.60c	22.792	endf60	ENDF/B-VI.1	1977	293.6	50294	2543	20	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
11023.51c	22.792	rmccs	ENDF/B-V.0	1977	293.6	48863	2228	20	yes	no	no	no	no	
11023.50c	22.792	endf5p	ENDF/B-V.0	1977	293.6	52252	2703	20	yes	no	no	no	no	
11023.42c	22.7923	endl92	LLNL	<1992	300	19309	1163	30	yes	no	no	no	no	
11023.710nc	22.792	ENDF71x	ENDF/B-VII.1	2000	293.6	71674	3503	20.0	yes	no	no	no	no	
11023.711nc	22.792	ENDF71x	ENDF/B-VII.1	2000	600.0	71330	3460	20.0	yes	no	no	no	no	
11023.712nc	22.792	ENDF71x	ENDF/B-VII.1	2000	900.0	71282	3454	20.0	yes	no	no	no	no	
11023.713nc	22.792	ENDF71x	ENDF/B-VII.1	2000	1200.0	71106	3432	20.0	yes	no	no	no	no	
11023.714nc	22.792	ENDF71x	ENDF/B-VII.1	2000	2500.0	70721	3384	20.0	yes	no	no	no	no	
11023.715nc	22.792	ENDF71x	ENDF/B-VII.1	2000	0.1	72785	3642	20.0	yes	no	no	no	no	
11023.716nc	22.792	ENDF71x	ENDF/B-VII.1	2000	250.0	71817	3521	20.0	yes	no	no	no	no	
				Z = 12, magnesium										
Mg-0														
12000.62c	24.0963	actia	ENDF/B-VI.8	2000	293.6	68746	3172	20	yes	no	no	no	no	
12000.61c	24.0963	actib	ENDF/B-VI.8	2000	77	69108	3213	20	yes	no	no	no	no	
12000.66c	24.0963	endf66a	ENDF/B-VI.0	1978	293.6	67511	3172	20	yes	no	no	no	no	
12000.64c	24.0963	endf66d	ENDF/B-VI.0	1978	77	67880	3213	20	yes	no	no	no	no	
12000.60c	24.0963	endf60	ENDF/B-VI.0	1978	293.6	55776	2525	20	yes	no	no	no	no	
12000.51c	24.0963	rmccs	ENDF/B-V.0	1978	293.6	48917	1928	20	yes	no	no	no	no	
12000.50c	24.0963	endf5u	ENDF/B-V.0	1978	293.6	56334	2430	20	yes	no	no	no	no	
12000.42c	24.0962	endl92	LLNL	<1992	300	9288	468	30	yes	no	no	no	no	
Mg-24														
12024.80c	23.779	ENDF71x	ENDF/B-VII.1	2001	293.6	49268	2665	20.0	yes	no	no	no	no	
12024.81c	23.779	ENDF71x	ENDF/B-VII.1	2001	600.0	49156	2651	20.0	yes	no	no	no	no	
12024.82c	23.779	ENDF71x	ENDF/B-VII.1	2001	900.0	49028	2635	20.0	yes	no	no	no	no	
12024.83c	23.779	ENDF71x	ENDF/B-VII.1	2001	1200.0	48987	2630	20.0	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
12024.84c	23.779	ENDF71x	ENDF/B-VII.1	2001	2500.0	48924	2622	20.0	yes	no	no	no	no	
12024.85c	23.779	ENDF71x	ENDF/B-VII.1	2001	0.1	50131	2773	20.0	yes	no	no	no	no	
12024.86c	23.779	ENDF71x	ENDF/B-VII.1	2001	250.0	49347	2675	20.0	yes	no	no	no	no	
12024.70c	23.779	endf70a	ENDF/B-VII.0	2001	293.6	49199	2665	20	yes	no	no	no	no	
12024.71c	23.779	endf70a	ENDF/B-VII.0	2001	600	49087	2651	20	yes	no	no	no	no	
12024.72c	23.779	endf70a	ENDF/B-VII.0	2001	900	48959	2635	20	yes	no	no	no	no	
12024.73c	23.779	endf70a	ENDF/B-VII.0	2001	1200	48918	2630	20	yes	no	no	no	no	
12024.74c	23.779	endf70a	ENDF/B-VII.0	2001	2500	48855	2622	20	yes	no	no	no	no	
12024.710nc	23.779	ENDF71x	ENDF/B-VII.1	2001	293.6	49268	2665	20.0	yes	no	no	no	no	
12024.711nc	23.779	ENDF71x	ENDF/B-VII.1	2001	600.0	49156	2651	20.0	yes	no	no	no	no	
12024.712nc	23.779	ENDF71x	ENDF/B-VII.1	2001	900.0	49028	2635	20.0	yes	no	no	no	no	
12024.713nc	23.779	ENDF71x	ENDF/B-VII.1	2001	1200.0	48987	2630	20.0	yes	no	no	no	no	
12024.714nc	23.779	ENDF71x	ENDF/B-VII.1	2001	2500.0	48924	2622	20.0	yes	no	no	no	no	
12024.715nc	23.779	ENDF71x	ENDF/B-VII.1	2001	0.1	50131	2773	20.0	yes	no	no	no	no	
12024.716nc	23.779	ENDF71x	ENDF/B-VII.1	2001	250.0	49347	2675	20.0	yes	no	no	no	no	
Mg-25														
12025.80c	24.7712	ENDF71x	ENDF/B-VII.1	2001	293.6	47134	1688	20.0	yes	no	no	no	no	
12025.81c	24.7712	ENDF71x	ENDF/B-VII.1	2001	600.0	47006	1672	20.0	yes	no	no	no	no	
12025.82c	24.7712	ENDF71x	ENDF/B-VII.1	2001	900.0	46767	1642	20.0	yes	no	no	no	no	
12025.83c	24.7712	ENDF71x	ENDF/B-VII.1	2001	1200.0	46630	1625	20.0	yes	no	no	no	no	
12025.84c	24.7712	ENDF71x	ENDF/B-VII.1	2001	2500.0	46503	1609	20.0	yes	no	no	no	no	
12025.85c	24.7712	ENDF71x	ENDF/B-VII.1	2001	0.1	47798	1771	20.0	yes	no	no	no	no	
12025.86c	24.7712	ENDF71x	ENDF/B-VII.1	2001	250.0	47110	1685	20.0	yes	no	no	no	no	
12025.70c	24.7712	endf70a	ENDF/B-VII.0	2001	293.6	47134	1688	20	yes	no	no	no	no	
12025.71c	24.7712	endf70a	ENDF/B-VII.0	2001	600	47006	1672	20	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
12025.72c	24.7712	endf70a	ENDF/B-VII.0	2001	900	46767	1642	20	yes	no	no	no	no	
12025.73c	24.7712	endf70a	ENDF/B-VII.0	2001	1200	46630	1625	20	yes	no	no	no	no	
12025.74c	24.7712	endf70a	ENDF/B-VII.0	2001	2500	46503	1609	20	yes	no	no	no	no	
12025.710nc	24.7712	ENDF71x	ENDF/B-VII.1	2001	293.6	47134	1688	20.0	yes	no	no	no	no	
12025.711nc	24.7712	ENDF71x	ENDF/B-VII.1	2001	600.0	47006	1672	20.0	yes	no	no	no	no	
12025.712nc	24.7712	ENDF71x	ENDF/B-VII.1	2001	900.0	46767	1642	20.0	yes	no	no	no	no	
12025.713nc	24.7712	ENDF71x	ENDF/B-VII.1	2001	1200.0	46630	1625	20.0	yes	no	no	no	no	
12025.714nc	24.7712	ENDF71x	ENDF/B-VII.1	2001	2500.0	46503	1609	20.0	yes	no	no	no	no	
12025.715nc	24.7712	ENDF71x	ENDF/B-VII.1	2001	0.1	47798	1771	20.0	yes	no	no	no	no	
12025.716nc	24.7712	ENDF71x	ENDF/B-VII.1	2001	250.0	47110	1685	20.0	yes	no	no	no	no	
Mg-26														
12026.80c	25.7594	ENDF71x	ENDF/B-VII.1	2001	293.6	37892	1235	20.0	yes	no	no	no	no	
12026.81c	25.7594	ENDF71x	ENDF/B-VII.1	2001	600.0	37781	1221	20.0	yes	no	no	no	no	
12026.82c	25.7594	ENDF71x	ENDF/B-VII.1	2001	900.0	37788	1222	20.0	yes	no	no	no	no	
12026.83c	25.7594	ENDF71x	ENDF/B-VII.1	2001	1200.0	37765	1219	20.0	yes	no	no	no	no	
12026.84c	25.7594	ENDF71x	ENDF/B-VII.1	2001	2500.0	37756	1218	20.0	yes	no	no	no	no	
12026.85c	25.7594	ENDF71x	ENDF/B-VII.1	2001	0.1	38173	1270	20.0	yes	no	no	no	no	
12026.86c	25.7594	ENDF71x	ENDF/B-VII.1	2001	250.0	37900	1236	20.0	yes	no	no	no	no	
12026.70c	25.7594	endf70a	ENDF/B-VII.0	2001	293.6	37892	1235	20	yes	no	no	no	no	
12026.71c	25.7594	endf70a	ENDF/B-VII.0	2001	600	37781	1221	20	yes	no	no	no	no	
12026.72c	25.7594	endf70a	ENDF/B-VII.0	2001	900	37788	1222	20	yes	no	no	no	no	
12026.73c	25.7594	endf70a	ENDF/B-VII.0	2001	1200	37765	1219	20	yes	no	no	no	no	
12026.74c	25.7594	endf70a	ENDF/B-VII.0	2001	2500	37756	1218	20	yes	no	no	no	no	
12026.710nc	25.7594	ENDF71x	ENDF/B-VII.1	2001	293.6	37892	1235	20.0	yes	no	no	no	no	
12026.711nc	25.7594	ENDF71x	ENDF/B-VII.1	2001	600.0	37781	1221	20.0	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
12026.712nc	25.7594	ENDF71x	ENDF/B-VII.1	2001	900.0	37788	1222	20.0	yes	no	no	no	no	
12026.713nc	25.7594	ENDF71x	ENDF/B-VII.1	2001	1200.0	37765	1219	20.0	yes	no	no	no	no	
12026.714nc	25.7594	ENDF71x	ENDF/B-VII.1	2001	2500.0	37756	1218	20.0	yes	no	no	no	no	
12026.715nc	25.7594	ENDF71x	ENDF/B-VII.1	2001	0.1	38173	1270	20.0	yes	no	no	no	no	
12026.716nc	25.7594	ENDF71x	ENDF/B-VII.1	2001	250.0	37900	1236	20.0	yes	no	no	no	no	
				Z = 13, aluminum										
Al-27														
13027.80c	26.74975	ENDF71x	ENDF/B-VII.1	2005	293.6	235688	5563	150.0	yes	no	yes	no	no	
13027.81c	26.74975	ENDF71x	ENDF/B-VII.1	2005	600.0	235032	5481	150.0	yes	no	yes	no	no	
13027.82c	26.74975	ENDF71x	ENDF/B-VII.1	2005	900.0	234551	5421	150.0	yes	no	yes	no	no	
13027.83c	26.74975	ENDF71x	ENDF/B-VII.1	2005	1200.0	234416	5404	150.0	yes	no	yes	no	no	
13027.84c	26.74975	ENDF71x	ENDF/B-VII.1	2005	2500.0	233800	5327	150.0	yes	no	yes	no	no	
13027.85c	26.74975	ENDF71x	ENDF/B-VII.1	2005	0.1	237415	5779	150.0	yes	no	yes	no	no	
13027.86c	26.74975	ENDF71x	ENDF/B-VII.1	2005	250.0	235728	5568	150.0	yes	no	yes	no	no	
13027.70c	26.74975	endf70a	ENDF/B-VII.0	2005	293.6	235689	5563	150	yes	no	yes	no	no	
13027.71c	26.74975	endf70a	ENDF/B-VII.0	2005	600	235031	5481	150	yes	no	yes	no	no	
13027.72c	26.74975	endf70a	ENDF/B-VII.0	2005	900	234551	5421	150	yes	no	yes	no	no	
13027.73c	26.74975	endf70a	ENDF/B-VII.0	2005	1200	234415	5404	150	yes	no	yes	no	no	
13027.74c	26.74975	endf70a	ENDF/B-VII.0	2005	2500	233800	5327	150	yes	no	yes	no	no	
13027.62c	26.7497	actia	ENDF/B-VI.8	2000	293.6	220418	3081	150	yes	no	yes	no	no	
13027.92c	26.7497	actia	ENDF/B-VI.8	2000	293.6	220449	3081	150	yes	no	yes	no	no	6
13027.61c	26.7497	actib	ENDF/B-VI.8	2000	77	220073	3038	150	yes	no	yes	no	no	
13027.91c	26.7497	actib	ENDF/B-VI.8	2000	77	220104	3038	150	yes	no	yes	no	no	6
13027.66c	26.7497	endf66a	ENDF/B-VI.6	1997	293.6	214004	3036	150	yes	no	yes	no	no	
13027.64c	26.7497	endf66d	ENDF/B-VI.6	1997	77	213659	3037	150	yes	no	yes	no	no	

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
13027.60c	26.75	endf60	ENDF/B-VI.0	1973	293.6	55427	2241	20	yes	no	no	no	no	
13027.50c	26.75	rmccs	ENDF/B-V.0	1973	293.6	54162	2028	20	yes	no	no	no	no	
13027.21c	26.7498	100xs	LANL/T:X	1989	300	35022	1473	100	yes	no	no	no	no	3
13027.42c	26.7498	endl92	LLNL	<1992	300	32388	1645	30	yes	no	no	no	no	
13027.24c	26.7497	la150n	ENDF/B-VI.6	1997	293.6	214549	3148	150	yes	no	yes	no	no	
13027.710nc	26.74975	ENDF71x	ENDF/B-VII.1	2005	293.6	235688	5563	150.0	yes	no	yes	no	no	
13027.711nc	26.74975	ENDF71x	ENDF/B-VII.1	2005	600.0	235032	5481	150.0	yes	no	yes	no	no	
13027.712nc	26.74975	ENDF71x	ENDF/B-VII.1	2005	900.0	234551	5421	150.0	yes	no	yes	no	no	
13027.713nc	26.74975	ENDF71x	ENDF/B-VII.1	2005	1200.0	234416	5404	150.0	yes	no	yes	no	no	
13027.714nc	26.74975	ENDF71x	ENDF/B-VII.1	2005	2500.0	233800	5327	150.0	yes	no	yes	no	no	
13027.715nc	26.74975	ENDF71x	ENDF/B-VII.1	2005	0.1	237415	5779	150.0	yes	no	yes	no	no	
13027.716nc	26.74975	ENDF71x	ENDF/B-VII.1	2005	250.0	235728	5568	150.0	yes	no	yes	no	no	
				Z = 14, silicon										
Si-0														
14000.60c	27.844	endf60	ENDF/B-VI.0	1976	293.6	104198	2824	20	yes	no	no	no	no	
14000.51c	27.844	rmccs	ENDF/B-V.0	1976	293.6	88129	1887	20	yes	no	no	no	no	
14000.50c	27.844	endf5p	ENDF/B-V.0	1976	293.6	98609	2440	20	yes	no	no	no	no	
14000.21c	27.844	100xs	LANL/T:X	1989	300	76399	2883	100	yes	no	no	no	no	3
14000.42c	27.8442	endl92	LLNL	<1992	300	16696	855	30	yes	no	no	no	no	
Si-28														
14028.80c	27.737	ENDF71x	ENDF/B-VII.1	1999	293.6	270709	8236	150.0	yes	no	yes	no	no	
14028.81c	27.737	ENDF71x	ENDF/B-VII.1	1999	600.0	270245	8178	150.0	yes	no	yes	no	no	
14028.82c	27.737	ENDF71x	ENDF/B-VII.1	1999	900.0	269989	8146	150.0	yes	no	yes	no	no	
14028.83c	27.737	ENDF71x	ENDF/B-VII.1	1999	1200.0	269796	8122	150.0	yes	no	yes	no	no	
14028.84c	27.737	ENDF71x	ENDF/B-VII.1	1999	2500.0	268973	8019	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
14028.85c	27.737	ENDF71x	ENDF/B-VII.1	1999	0.1	273566	8593	150.0	yes	no	yes	no	no	
14028.86c	27.737	ENDF71x	ENDF/B-VII.1	1999	250.0	270844	8253	150.0	yes	no	yes	no	no	
14028.70c	27.737	endf70a	ENDF/B-VII.0	1999	293.6	270861	8255	150	yes	no	yes	no	no	
14028.71c	27.737	endf70a	ENDF/B-VII.0	1999	600	270397	8197	150	yes	no	yes	no	no	
14028.72c	27.737	endf70a	ENDF/B-VII.0	1999	900	270141	8165	150	yes	no	yes	no	no	
14028.73c	27.737	endf70a	ENDF/B-VII.0	1999	1200	269949	8141	150	yes	no	yes	no	no	
14028.74c	27.737	endf70a	ENDF/B-VII.0	1999	2500	269126	8038	150	yes	no	yes	no	no	
14028.62c	27.737	actia	ENDF/B-VI.6	1997	293.6	263728	7364	150	yes	no	yes	no	no	
14028.61c	27.737	actib	ENDF/B-VI.6	1997	77	264592	7472	150	yes	no	yes	no	no	
14028.66c	27.737	endf66a	ENDF/B-VI.6	1997	293.6	263728	7364	150	yes	no	yes	no	no	
14028.64c	27.737	endf66d	ENDF/B-VI.6	1997	77	264592	7472	150	yes	no	yes	no	no	
14028.24c	27.737	la150n	LANL	1997	293.6	264892	7417	150	yes	no	yes	no	no	
14028.710nc	27.737	ENDF71x	ENDF/B-VII.1	1999	293.6	270709	8236	150.0	yes	no	yes	no	no	
14028.711nc	27.737	ENDF71x	ENDF/B-VII.1	1999	600.0	270245	8178	150.0	yes	no	yes	no	no	
14028.712nc	27.737	ENDF71x	ENDF/B-VII.1	1999	900.0	269989	8146	150.0	yes	no	yes	no	no	
14028.713nc	27.737	ENDF71x	ENDF/B-VII.1	1999	1200.0	269796	8122	150.0	yes	no	yes	no	no	
14028.714nc	27.737	ENDF71x	ENDF/B-VII.1	1999	2500.0	268973	8019	150.0	yes	no	yes	no	no	
14028.715nc	27.737	ENDF71x	ENDF/B-VII.1	1999	0.1	273566	8593	150.0	yes	no	yes	no	no	
14028.716nc	27.737	ENDF71x	ENDF/B-VII.1	1999	250.0	270844	8253	150.0	yes	no	yes	no	no	
Si-29														
14029.80c	28.728	ENDF71x	ENDF/B-VII.1	2004	293.6	253907	5034	150.0	yes	no	yes	no	no	
14029.81c	28.728	ENDF71x	ENDF/B-VII.1	2004	600.0	253827	5024	150.0	yes	no	yes	no	no	
14029.82c	28.728	ENDF71x	ENDF/B-VII.1	2004	900.0	253699	5008	150.0	yes	no	yes	no	no	
14029.83c	28.728	ENDF71x	ENDF/B-VII.1	2004	1200.0	253587	4994	150.0	yes	no	yes	no	no	
14029.84c	28.728	ENDF71x	ENDF/B-VII.1	2004	2500.0	253467	4979	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
14029.85c	28.728	ENDF71x	ENDF/B-VII.1	2004	0.1	254156	5065	150.0	yes	no	yes	no	no	
14029.86c	28.728	ENDF71x	ENDF/B-VII.1	2004	250.0	253972	5042	150.0	yes	no	yes	no	no	
14029.70c	28.728	endf70a	ENDF/B-VII.0	2004	293.6	253907	5034	150	yes	no	yes	no	no	
14029.71c	28.728	endf70a	ENDF/B-VII.0	2004	600	253827	5024	150	yes	no	yes	no	no	
14029.72c	28.728	endf70a	ENDF/B-VII.0	2004	900	253699	5008	150	yes	no	yes	no	no	
14029.73c	28.728	endf70a	ENDF/B-VII.0	2004	1200	253587	4994	150	yes	no	yes	no	no	
14029.74c	28.728	endf70a	ENDF/B-VII.0	2004	2500	253467	4979	150	yes	no	yes	no	no	
14029.62c	28.728	actia	ENDF/B-VI.8	1999	293.6	252591	4869	150	yes	no	yes	no	no	
14029.61c	28.728	actib	ENDF/B-VI.8	1999	77	252671	4879	150	yes	no	yes	no	no	
14029.66c	28.728	endf66a	ENDF/B-VI.6	1997	293.6	252615	4872	150	yes	no	yes	no	no	
14029.64c	28.728	endf66d	ENDF/B-VI.6	1997	77	252791	4894	150	yes	no	yes	no	no	
14029.24c	28.728	la150n	ENDF/B-VI.6	1997	293.6	252663	4878	150	yes	no	yes	no	no	
14029.710nc	28.728	ENDF71x	ENDF/B-VII.1	2004	293.6	253907	5034	150.0	yes	no	yes	no	no	
14029.711nc	28.728	ENDF71x	ENDF/B-VII.1	2004	600.0	253827	5024	150.0	yes	no	yes	no	no	
14029.712nc	28.728	ENDF71x	ENDF/B-VII.1	2004	900.0	253699	5008	150.0	yes	no	yes	no	no	
14029.713nc	28.728	ENDF71x	ENDF/B-VII.1	2004	1200.0	253587	4994	150.0	yes	no	yes	no	no	
14029.714nc	28.728	ENDF71x	ENDF/B-VII.1	2004	2500.0	253467	4979	150.0	yes	no	yes	no	no	
14029.715nc	28.728	ENDF71x	ENDF/B-VII.1	2004	0.1	254156	5065	150.0	yes	no	yes	no	no	
14029.716nc	28.728	ENDF71x	ENDF/B-VII.1	2004	250.0	253972	5042	150.0	yes	no	yes	no	no	
Si-30														
14030.80c	29.716	ENDF71x	ENDF/B-VII.1	2004	293.6	199479	6235	150.0	yes	no	yes	no	no	
14030.81c	29.716	ENDF71x	ENDF/B-VII.1	2004	600.0	199151	6194	150.0	yes	no	yes	no	no	
14030.82c	29.716	ENDF71x	ENDF/B-VII.1	2004	900.0	198776	6147	150.0	yes	no	yes	no	no	
14030.83c	29.716	ENDF71x	ENDF/B-VII.1	2004	1200.0	198767	6146	150.0	yes	no	yes	no	no	
14030.84c	29.716	ENDF71x	ENDF/B-VII.1	2004	2500.0	198311	6089	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
14030.85c	29.716	ENDF71x	ENDF/B-VII.1	2004	0.1	200656	6382	150.0	yes	no	yes	no	no	
14030.86c	29.716	ENDF71x	ENDF/B-VII.1	2004	250.0	199584	6248	150.0	yes	no	yes	no	no	
14030.70c	29.716	endf70a	ENDF/B-VII.0	2004	293.6	199479	6235	150	yes	no	yes	no	no	
14030.71c	29.716	endf70a	ENDF/B-VII.0	2004	600	199151	6194	150	yes	no	yes	no	no	
14030.72c	29.716	endf70a	ENDF/B-VII.0	2004	900	198776	6147	150	yes	no	yes	no	no	
14030.73c	29.716	endf70a	ENDF/B-VII.0	2004	1200	198767	6146	150	yes	no	yes	no	no	
14030.74c	29.716	endf70a	ENDF/B-VII.0	2004	2500	198311	6089	150	yes	no	yes	no	no	
14030.62c	29.716	actia	ENDF/B-VI.6	1997	293.6	195852	5781	150	yes	no	yes	no	no	
14030.61c	29.716	actib	ENDF/B-VI.6	1997	77	196252	5831	150	yes	no	yes	no	no	
14030.66c	29.716	endf66a	ENDF/B-VI.6	1997	293.6	195852	5781	150	yes	no	yes	no	no	
14030.64c	29.716	endf66d	ENDF/B-VI.6	1997	77	196252	5831	150	yes	no	yes	no	no	
14030.24c	29.716	la150n	ENDF/B-VI.6	1997	293.6	195933	5791	150	yes	no	yes	no	no	
14030.710nc	29.716	ENDF71x	ENDF/B-VII.1	2004	293.6	199479	6235	150.0	yes	no	yes	no	no	
14030.711nc	29.716	ENDF71x	ENDF/B-VII.1	2004	600.0	199151	6194	150.0	yes	no	yes	no	no	
14030.712nc	29.716	ENDF71x	ENDF/B-VII.1	2004	900.0	198776	6147	150.0	yes	no	yes	no	no	
14030.713nc	29.716	ENDF71x	ENDF/B-VII.1	2004	1200.0	198767	6146	150.0	yes	no	yes	no	no	
14030.714nc	29.716	ENDF71x	ENDF/B-VII.1	2004	2500.0	198311	6089	150.0	yes	no	yes	no	no	
14030.715nc	29.716	ENDF71x	ENDF/B-VII.1	2004	0.1	200656	6382	150.0	yes	no	yes	no	no	
14030.716nc	29.716	ENDF71x	ENDF/B-VII.1	2004	250.0	199584	6248	150.0	yes	no	yes	no	no	
Z = 15, phosphorus														
P-31														
15031.80c	30.708	ENDF71x	ENDF/B-VII.1	2007	293.6	71982	995	150.0	yes	no	yes	no	no	
15031.81c	30.708	ENDF71x	ENDF/B-VII.1	2007	600.0	72222	1025	150.0	yes	no	yes	no	no	
15031.82c	30.708	ENDF71x	ENDF/B-VII.1	2007	900.0	72495	1059	150.0	yes	no	yes	no	no	
15031.83c	30.708	ENDF71x	ENDF/B-VII.1	2007	1200.0	72982	1120	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
15031.84c	30.708	ENDF71x	ENDF/B-VII.1	2007	2500.0	74783	1345	150.0	yes	no	yes	no	no	
15031.85c	30.708	ENDF71x	ENDF/B-VII.1	2007	0.1	70671	831	150.0	yes	no	yes	no	no	
15031.86c	30.708	ENDF71x	ENDF/B-VII.1	2007	250.0	71758	967	150.0	yes	no	yes	no	no	
15031.70c	30.708	endf70a	ENDF/B-VII.0	2004	293.6	71942	990	150	yes	no	yes	no	no	
15031.71c	30.708	endf70a	ENDF/B-VII.0	2004	600	72214	1024	150	yes	no	yes	no	no	
15031.72c	30.708	endf70a	ENDF/B-VII.0	2004	900	72498	1059	150	yes	no	yes	no	no	
15031.73c	30.708	endf70a	ENDF/B-VII.0	2004	1200	73017	1124	150	yes	no	yes	no	no	
15031.74c	30.708	endf70a	ENDF/B-VII.0	2004	2500	74815	1349	150	yes	no	yes	no	no	
15031.66c	30.708	endf66a	ENDF/B-VI.6	1997	293.6	71942	990	150	yes	no	yes	no	no	
15031.60c	30.708	endf60	ENDF/B-VI.0	1977	293.6	6715	297	20	yes	no	no	no	no	
15031.51c	30.708	rmccs	ENDF/B-V.0	1977	293.6	5732	326	20	yes	no	no	no	no	
15031.50c	30.708	endf5u	ENDF/B-V.0	1977	293.6	5733	326	20	yes	no	no	no	no	
15031.42c	30.7077	endl92	LLNL	<1992	300	6805	224	30	yes	no	no	no	no	
15031.24c	30.708	la150n	ENDF/B-VI.6	1997	293.6	71942	990	150	yes	no	yes	no	no	
15031.710nc	30.708	ENDF71x	ENDF/B-VII.1	2007	293.6	71982	995	150.0	yes	no	yes	no	no	
15031.711nc	30.708	ENDF71x	ENDF/B-VII.1	2007	600.0	72222	1025	150.0	yes	no	yes	no	no	
15031.712nc	30.708	ENDF71x	ENDF/B-VII.1	2007	900.0	72495	1059	150.0	yes	no	yes	no	no	
15031.713nc	30.708	ENDF71x	ENDF/B-VII.1	2007	1200.0	72982	1120	150.0	yes	no	yes	no	no	
15031.714nc	30.708	ENDF71x	ENDF/B-VII.1	2007	2500.0	74783	1345	150.0	yes	no	yes	no	no	
15031.715nc	30.708	ENDF71x	ENDF/B-VII.1	2007	0.1	70671	831	150.0	yes	no	yes	no	no	
15031.716nc	30.708	ENDF71x	ENDF/B-VII.1	2007	250.0	71758	967	150.0	yes	no	yes	no	no	
			Z = 16, sulfur											
S-0														
16000.62c	31.7888	actia	ENDF/B-VI.8	2000	293.6	160505	10272	20	yes	no	no	no	no	
16000.61c	31.7888	actib	ENDF/B-VI.8	2000	77	162749	10459	20	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
16000.66c	31.7882	endf66a	ENDF/B-VI.0	1979	293.6	159894	10273	20	yes	no	no	no	no	
16000.64c	31.7882	endf66d	ENDF/B-VI.0	1979	77	162138	10460	20	yes	no	no	no	no	
16000.60c	31.7882	endf60	ENDF/B-VI.0	1979	293.6	108683	8382	20	yes	no	no	no	no	
S-32														
16032.80c	31.6973	ENDF71x	ENDF/B-VII.1	2001	293.6	136765	9795	20.0	yes	no	no	no	no	
16032.81c	31.6973	ENDF71x	ENDF/B-VII.1	2001	600.0	135565	9675	20.0	yes	no	no	no	no	
16032.82c	31.6973	ENDF71x	ENDF/B-VII.1	2001	900.0	134734	9592	20.0	yes	no	no	no	no	
16032.83c	31.6973	ENDF71x	ENDF/B-VII.1	2001	1200.0	134195	9538	20.0	yes	no	no	no	no	
16032.84c	31.6973	ENDF71x	ENDF/B-VII.1	2001	2500.0	132515	9370	20.0	yes	no	no	no	no	
16032.85c	31.6973	ENDF71x	ENDF/B-VII.1	2001	0.1	144485	10567	20.0	yes	no	no	no	no	
16032.86c	31.6973	ENDF71x	ENDF/B-VII.1	2001	250.0	137124	9831	20.0	yes	no	no	no	no	
16032.70c	31.6973	endf70a	ENDF/B-VII.0	2001	293.6	136765	9795	20	yes	no	no	no	no	
16032.71c	31.6973	endf70a	ENDF/B-VII.0	2001	600	135565	9675	20	yes	no	no	no	no	
16032.72c	31.6973	endf70a	ENDF/B-VII.0	2001	900	134734	9592	20	yes	no	no	no	no	
16032.73c	31.6973	endf70a	ENDF/B-VII.0	2001	1200	134195	9538	20	yes	no	no	no	no	
16032.74c	31.6973	endf70a	ENDF/B-VII.0	2001	2500	132515	9370	20	yes	no	no	no	no	
16032.62c	31.697	actia	ENDF/B-VI.8	2000	293.6	16050	993	20	yes	no	no	no	no	
16032.61c	31.697	actib	ENDF/B-VI.8	2000	77	14930	885	20	yes	no	no	no	no	
16032.66c	31.697	endf66a	ENDF/B-VI.0	1977	293.6	13834	993	20	yes	no	no	no	no	
16032.64c	31.697	endf66d	ENDF/B-VI.0	1977	77	12714	885	20	yes	no	no	no	no	
16032.60c	31.697	endf60	ENDF/B-VI.0	1977	293.6	7025	377	20	yes	no	no	no	no	
16032.51c	31.697	rmccs	ENDF/B-V.0	1977	293.6	6780	362	20	yes	no	no	no	no	
16032.50c	31.697	endf5u	ENDF/B-V.0	1977	293.6	6789	363	20	yes	no	no	no	no	
16032.42c	31.6974	endl92	LLNL	<1992	300	6623	307	30	yes	no	no	no	no	
16032.710nc	31.6973	ENDF71x	ENDF/B-VII.1	2001	293.6	136765	9795	20.0	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
16032.711nc	31.6973	ENDF71x	ENDF/B-VII.1	2001	600.0	135565	9675	20.0	yes	no	no	no	no	
16032.712nc	31.6973	ENDF71x	ENDF/B-VII.1	2001	900.0	134734	9592	20.0	yes	no	no	no	no	
16032.713nc	31.6973	ENDF71x	ENDF/B-VII.1	2001	1200.0	134195	9538	20.0	yes	no	no	no	no	
16032.714nc	31.6973	ENDF71x	ENDF/B-VII.1	2001	2500.0	132515	9370	20.0	yes	no	no	no	no	
16032.715nc	31.6973	ENDF71x	ENDF/B-VII.1	2001	0.1	144485	10567	20.0	yes	no	no	no	no	
16032.716nc	31.6973	ENDF71x	ENDF/B-VII.1	2001	250.0	137124	9831	20.0	yes	no	no	no	no	
S-33														
16033.80c	32.6878	ENDF71x	ENDF/B-VII.1	2001	293.6	56789	2093	20.0	yes	no	no	no	no	
16033.81c	32.6878	ENDF71x	ENDF/B-VII.1	2001	600.0	56585	2076	20.0	yes	no	no	no	no	
16033.82c	32.6878	ENDF71x	ENDF/B-VII.1	2001	900.0	56549	2073	20.0	yes	no	no	no	no	
16033.83c	32.6878	ENDF71x	ENDF/B-VII.1	2001	1200.0	56501	2069	20.0	yes	no	no	no	no	
16033.84c	32.6878	ENDF71x	ENDF/B-VII.1	2001	2500.0	56309	2053	20.0	yes	no	no	no	no	
16033.85c	32.6878	ENDF71x	ENDF/B-VII.1	2001	0.1	56885	2101	20.0	yes	no	no	no	no	
16033.86c	32.6878	ENDF71x	ENDF/B-VII.1	2001	250.0	56789	2093	20.0	yes	no	no	no	no	
16033.70c	32.6878	endf70a	ENDF/B-VII.0	2001	293.6	56837	2097	20	yes	no	no	no	no	
16033.71c	32.6878	endf70a	ENDF/B-VII.0	2001	600	56633	2080	20	yes	no	no	no	no	
16033.72c	32.6878	endf70a	ENDF/B-VII.0	2001	900	56597	2077	20	yes	no	no	no	no	
16033.73c	32.6878	endf70a	ENDF/B-VII.0	2001	1200	56549	2073	20	yes	no	no	no	no	
16033.74c	32.6878	endf70a	ENDF/B-VII.0	2001	2500	56357	2057	20	yes	no	no	no	no	
16033.710nc	32.6878	ENDF71x	ENDF/B-VII.1	2001	293.6	56789	2093	20.0	yes	no	no	no	no	
16033.711nc	32.6878	ENDF71x	ENDF/B-VII.1	2001	600.0	56585	2076	20.0	yes	no	no	no	no	
16033.712nc	32.6878	ENDF71x	ENDF/B-VII.1	2001	900.0	56549	2073	20.0	yes	no	no	no	no	
16033.713nc	32.6878	ENDF71x	ENDF/B-VII.1	2001	1200.0	56501	2069	20.0	yes	no	no	no	no	
16033.714nc	32.6878	ENDF71x	ENDF/B-VII.1	2001	2500.0	56309	2053	20.0	yes	no	no	no	no	
16033.715nc	32.6878	ENDF71x	ENDF/B-VII.1	2001	0.1	56885	2101	20.0	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
16033.716nc	32.6878	ENDF71x	ENDF/B-VII.1	2001	250.0	56789	2093	20.0	yes	no	no	no	no	
S-34														
16034.80c	33.6762	ENDF71x	ENDF/B-VII.1	2001	293.6	40845	1752	20.0	yes	no	no	no	no	
16034.81c	33.6762	ENDF71x	ENDF/B-VII.1	2001	600.0	40805	1747	20.0	yes	no	no	no	no	
16034.82c	33.6762	ENDF71x	ENDF/B-VII.1	2001	900.0	40821	1749	20.0	yes	no	no	no	no	
16034.83c	33.6762	ENDF71x	ENDF/B-VII.1	2001	1200.0	40829	1750	20.0	yes	no	no	no	no	
16034.84c	33.6762	ENDF71x	ENDF/B-VII.1	2001	2500.0	40733	1738	20.0	yes	no	no	no	no	
16034.85c	33.6762	ENDF71x	ENDF/B-VII.1	2001	0.1	40877	1756	20.0	yes	no	no	no	no	
16034.86c	33.6762	ENDF71x	ENDF/B-VII.1	2001	250.0	40853	1753	20.0	yes	no	no	no	no	
16034.70c	33.6762	endf70a	ENDF/B-VII.0	2001	293.6	40877	1756	20	yes	no	no	no	no	
16034.71c	33.6762	endf70a	ENDF/B-VII.0	2001	600	40837	1751	20	yes	no	no	no	no	
16034.72c	33.6762	endf70a	ENDF/B-VII.0	2001	900	40853	1753	20	yes	no	no	no	no	
16034.73c	33.6762	endf70a	ENDF/B-VII.0	2001	1200	40861	1754	20	yes	no	no	no	no	
16034.74c	33.6762	endf70a	ENDF/B-VII.0	2001	2500	40765	1742	20	yes	no	no	no	no	
16034.710nc	33.6762	ENDF71x	ENDF/B-VII.1	2001	293.6	40845	1752	20.0	yes	no	no	no	no	
16034.711nc	33.6762	ENDF71x	ENDF/B-VII.1	2001	600.0	40805	1747	20.0	yes	no	no	no	no	
16034.712nc	33.6762	ENDF71x	ENDF/B-VII.1	2001	900.0	40821	1749	20.0	yes	no	no	no	no	
16034.713nc	33.6762	ENDF71x	ENDF/B-VII.1	2001	1200.0	40829	1750	20.0	yes	no	no	no	no	
16034.714nc	33.6762	ENDF71x	ENDF/B-VII.1	2001	2500.0	40733	1738	20.0	yes	no	no	no	no	
16034.715nc	33.6762	ENDF71x	ENDF/B-VII.1	2001	0.1	40877	1756	20.0	yes	no	no	no	no	
16034.716nc	33.6762	ENDF71x	ENDF/B-VII.1	2001	250.0	40853	1753	20.0	yes	no	no	no	no	
S-36														
16036.80c	35.658	ENDF71x	ENDF/B-VII.1	2001	293.6	28871	688	20.0	yes	no	no	no	no	
16036.81c	35.658	ENDF71x	ENDF/B-VII.1	2001	600.0	28904	692	20.0	yes	no	no	no	no	
16036.82c	35.658	ENDF71x	ENDF/B-VII.1	2001	900.0	28920	694	20.0	yes	no	no	no	no	

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
16036.83c	35.658	ENDF71x	ENDF/B-VII.1	2001	1200.0	28928	695	20.0	yes	no	no	no	no	
16036.84c	35.658	ENDF71x	ENDF/B-VII.1	2001	2500.0	28959	699	20.0	yes	no	no	no	no	
16036.85c	35.658	ENDF71x	ENDF/B-VII.1	2001	0.1	28768	675	20.0	yes	no	no	no	no	
16036.86c	35.658	ENDF71x	ENDF/B-VII.1	2001	250.0	28871	688	20.0	yes	no	no	no	no	
16036.70c	35.658	endf70a	ENDF/B-VII.0	2001	293.6	28871	688	20	yes	no	no	no	no	
16036.71c	35.658	endf70a	ENDF/B-VII.0	2001	600	28904	692	20	yes	no	no	no	no	
16036.72c	35.658	endf70a	ENDF/B-VII.0	2001	900	28920	694	20	yes	no	no	no	no	
16036.73c	35.658	endf70a	ENDF/B-VII.0	2001	1200	28928	695	20	yes	no	no	no	no	
16036.74c	35.658	endf70a	ENDF/B-VII.0	2001	2500	28959	699	20	yes	no	no	no	no	
16036.710nc	35.658	ENDF71x	ENDF/B-VII.1	2001	293.6	28871	688	20.0	yes	no	no	no	no	
16036.711nc	35.658	ENDF71x	ENDF/B-VII.1	2001	600.0	28904	692	20.0	yes	no	no	no	no	
16036.712nc	35.658	ENDF71x	ENDF/B-VII.1	2001	900.0	28920	694	20.0	yes	no	no	no	no	
16036.713nc	35.658	ENDF71x	ENDF/B-VII.1	2001	1200.0	28928	695	20.0	yes	no	no	no	no	
16036.714nc	35.658	ENDF71x	ENDF/B-VII.1	2001	2500.0	28959	699	20.0	yes	no	no	no	no	
16036.715nc	35.658	ENDF71x	ENDF/B-VII.1	2001	0.1	28768	675	20.0	yes	no	no	no	no	
16036.716nc	35.658	ENDF71x	ENDF/B-VII.1	2001	250.0	28871	688	20.0	yes	no	no	no	no	
			Z = 17, chlorine											
Cl-0														
17000.66c	35.148	endf66a	ENDF/B-VI.0	1967	293.6	45407	2888	20	yes	no	no	no	no	
17000.64c	35.148	endf66d	ENDF/B-VI.0	1967	77	44517	2799	20	yes	no	no	no	no	
17000.60c	35.148	endf60	ENDF/B-VI.0	1967	293.6	24090	1816	20	yes	no	no	no	no	
17000.51c	35.148	rmccs	ENDF/B-V.0	1967	293.6	21084	1375	20	yes	no	no	no	no	
17000.50c	35.148	endf5p	ENDF/B-V.0	1967	293.6	23313	1499	20	yes	no	no	no	no	
17000.42c	35.1484	endl92	LLNL	<1992	300	12012	807	30	yes	no	no	no	no	
Cl-35														

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
17035.80c	34.66845	ENDF71x	ENDF/B-VII.1	2007	293.6	678726	23176	20.0	yes	no	yes	no	no	
17035.81c	34.66845	ENDF71x	ENDF/B-VII.1	2007	600.0	674568	22945	20.0	yes	no	yes	no	no	
17035.82c	34.66845	ENDF71x	ENDF/B-VII.1	2007	900.0	672119	22809	20.0	yes	no	yes	no	no	
17035.83c	34.66845	ENDF71x	ENDF/B-VII.1	2007	1200.0	669311	22653	20.0	yes	no	yes	no	no	
17035.84c	34.66845	ENDF71x	ENDF/B-VII.1	2007	2500.0	664164	22367	20.0	yes	no	yes	no	no	
17035.85c	34.66845	ENDF71x	ENDF/B-VII.1	2007	0.1	696311	24153	20.0	yes	no	yes	no	no	
17035.86c	34.66845	ENDF71x	ENDF/B-VII.1	2007	250.0	679337	23210	20.0	yes	no	yes	no	no	
17035.70c	34.66845	endf70a	ENDF/B-VII.0	2003	293.6	715868	25782	20	yes	no	yes	no	no	
17035.71c	34.66845	endf70a	ENDF/B-VII.0	2003	600	711422	25535	20	yes	no	yes	no	no	
17035.72c	34.66845	endf70a	ENDF/B-VII.0	2003	900	709298	25417	20	yes	no	yes	no	no	
17035.73c	34.66845	endf70a	ENDF/B-VII.0	2003	1200	707498	25317	20	yes	no	yes	no	no	
17035.74c	34.66845	endf70a	ENDF/B-VII.0	2003	2500	702170	25021	20	yes	no	yes	no	no	
17035.62c	34.6684	actia	ENDF/B-VI.8	2000	293.6	311841	6987	20	yes	no	yes	no	no	
17035.61c	34.6684	actib	ENDF/B-VI.8	2000	77	316441	7217	20	yes	no	yes	no	no	
17035.710nc	34.66845	ENDF71x	ENDF/B-VII.1	2007	293.6	678726	23176	20.0	yes	no	yes	no	no	
17035.711nc	34.66845	ENDF71x	ENDF/B-VII.1	2007	600.0	674568	22945	20.0	yes	no	yes	no	no	
17035.712nc	34.66845	ENDF71x	ENDF/B-VII.1	2007	900.0	672119	22809	20.0	yes	no	yes	no	no	
17035.713nc	34.66845	ENDF71x	ENDF/B-VII.1	2007	1200.0	669311	22653	20.0	yes	no	yes	no	no	
17035.714nc	34.66845	ENDF71x	ENDF/B-VII.1	2007	2500.0	664164	22367	20.0	yes	no	yes	no	no	
17035.715nc	34.66845	ENDF71x	ENDF/B-VII.1	2007	0.1	696311	24153	20.0	yes	no	yes	no	no	
17035.716nc	34.66845	ENDF71x	ENDF/B-VII.1	2007	250.0	679337	23210	20.0	yes	no	yes	no	no	
Cl-37														
17037.80c	36.6483	ENDF71x	ENDF/B-VII.1	2007	293.6	217477	13119	20.0	yes	no	yes	no	no	
17037.81c	36.6483	ENDF71x	ENDF/B-VII.1	2007	600.0	215733	12901	20.0	yes	no	yes	no	no	
17037.82c	36.6483	ENDF71x	ENDF/B-VII.1	2007	900.0	214692	12771	20.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
17037.83c	36.6483	ENDF71x	ENDF/B-VII.1	2007	1200.0	213908	12673	20.0	yes	no	yes	no	no	
17037.84c	36.6483	ENDF71x	ENDF/B-VII.1	2007	2500.0	210951	12303	20.0	yes	no	yes	no	no	
17037.85c	36.6483	ENDF71x	ENDF/B-VII.1	2007	0.1	221813	13661	20.0	yes	no	yes	no	no	
17037.86c	36.6483	ENDF71x	ENDF/B-VII.1	2007	250.0	217693	13146	20.0	yes	no	yes	no	no	
17037.70c	36.6483	endf70a	ENDF/B-VII.0	2003	293.6	211102	12322	20	yes	no	yes	no	no	
17037.71c	36.6483	endf70a	ENDF/B-VII.0	2003	600	209701	12147	20	yes	no	yes	no	no	
17037.72c	36.6483	endf70a	ENDF/B-VII.0	2003	900	208404	11985	20	yes	no	yes	no	no	
17037.73c	36.6483	endf70a	ENDF/B-VII.0	2003	1200	207197	11834	20	yes	no	yes	no	no	
17037.74c	36.6483	endf70a	ENDF/B-VII.0	2003	2500	204317	11474	20	yes	no	yes	no	no	
17037.62c	36.6483	actia	ENDF/B-VI.8	2000	293.6	137404	3425	20	yes	no	yes	no	no	
17037.61c	36.6483	actib	ENDF/B-VI.8	2000	77	137963	3495	20	yes	no	yes	no	no	
17037.710nc	36.6483	ENDF71x	ENDF/B-VII.1	2007	293.6	217477	13119	20.0	yes	no	yes	no	no	
17037.711nc	36.6483	ENDF71x	ENDF/B-VII.1	2007	600.0	215733	12901	20.0	yes	no	yes	no	no	
17037.712nc	36.6483	ENDF71x	ENDF/B-VII.1	2007	900.0	214692	12771	20.0	yes	no	yes	no	no	
17037.713nc	36.6483	ENDF71x	ENDF/B-VII.1	2007	1200.0	213908	12673	20.0	yes	no	yes	no	no	
17037.714nc	36.6483	ENDF71x	ENDF/B-VII.1	2007	2500.0	210951	12303	20.0	yes	no	yes	no	no	
17037.715nc	36.6483	ENDF71x	ENDF/B-VII.1	2007	0.1	221813	13661	20.0	yes	no	yes	no	no	
17037.716nc	36.6483	ENDF71x	ENDF/B-VII.1	2007	250.0	217693	13146	20.0	yes	no	yes	no	no	
				Z = 18, argon										
Ar-0														
18000.35c	39.6048	rmccsa	LLNL	<1985	0	5585	259	20	yes	no	no	no	no	
18000.59c	39.6048	misc5xs	LANL/T	1982	293.6	3473	252	20	yes	no	no	no	no	7 8
18000.42c	39.6048	endl92	LLNL	<1992	300	5580	152	30	yes	no	no	no	no	
Ar-36														

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
18036.80c	35.6585	ENDF71x	ENDF/B-VII.1	1992	293.6	15184	856	20.0	no	no	no	no	no	
18036.81c	35.6585	ENDF71x	ENDF/B-VII.1	1992	600.0	15122	847	20.0	no	no	no	no	no	
18036.82c	35.6585	ENDF71x	ENDF/B-VII.1	1992	900.0	15107	845	20.0	no	no	no	no	no	
18036.83c	35.6585	ENDF71x	ENDF/B-VII.1	1992	1200.0	15156	852	20.0	no	no	no	no	no	
18036.84c	35.6585	ENDF71x	ENDF/B-VII.1	1992	2500.0	15318	875	20.0	no	no	no	no	no	
18036.85c	35.6585	ENDF71x	ENDF/B-VII.1	1992	0.1	16025	976	20.0	no	no	no	no	no	
18036.86c	35.6585	ENDF71x	ENDF/B-VII.1	1992	250.0	15206	859	20.0	no	no	no	no	no	
18036.70c	35.6585	endf70a	ENDF/B-VII.0	1992	293.6	15679	921	20	no	no	no	no	no	
18036.71c	35.6585	endf70a	ENDF/B-VII.0	1992	600	15617	912	20	no	no	no	no	no	
18036.72c	35.6585	endf70a	ENDF/B-VII.0	1992	900	15602	910	20	no	no	no	no	no	
18036.73c	35.6585	endf70a	ENDF/B-VII.0	1992	1200	15651	917	20	no	no	no	no	no	
18036.74c	35.6585	endf70a	ENDF/B-VII.0	1992	2500	15813	940	20	no	no	no	no	no	
18036.710nc	35.6585	ENDF71x	ENDF/B-VII.1	1992	293.6	15184	856	20.0	no	no	no	no	no	
18036.711nc	35.6585	ENDF71x	ENDF/B-VII.1	1992	600.0	15122	847	20.0	no	no	no	no	no	
18036.712nc	35.6585	ENDF71x	ENDF/B-VII.1	1992	900.0	15107	845	20.0	no	no	no	no	no	
18036.713nc	35.6585	ENDF71x	ENDF/B-VII.1	1992	1200.0	15156	852	20.0	no	no	no	no	no	
18036.714nc	35.6585	ENDF71x	ENDF/B-VII.1	1992	2500.0	15318	875	20.0	no	no	no	no	no	
18036.715nc	35.6585	ENDF71x	ENDF/B-VII.1	1992	0.1	16025	976	20.0	no	no	no	no	no	
18036.716nc	35.6585	ENDF71x	ENDF/B-VII.1	1992	250.0	15206	859	20.0	no	no	no	no	no	
Ar-38														
18038.80c	37.6366	ENDF71x	ENDF/B-VII.1	1992	293.6	15536	924	20.0	no	no	no	no	yes	
18038.81c	37.6366	ENDF71x	ENDF/B-VII.1	1992	600.0	15459	913	20.0	no	no	no	no	yes	
18038.82c	37.6366	ENDF71x	ENDF/B-VII.1	1992	900.0	15537	924	20.0	no	no	no	no	yes	
18038.83c	37.6366	ENDF71x	ENDF/B-VII.1	1992	1200.0	15529	923	20.0	no	no	no	no	yes	
18038.84c	37.6366	ENDF71x	ENDF/B-VII.1	1992	2500.0	15431	909	20.0	no	no	no	no	yes	

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
18038.85c	37.6366	ENDF71x	ENDF/B-VII.1	1992	0.1	15984	988	20.0	no	no	no	no	yes	
18038.86c	37.6366	ENDF71x	ENDF/B-VII.1	1992	250.0	15530	923	20.0	no	no	no	no	yes	
18038.70c	37.6366	endf70a	ENDF/B-VII.0	1992	293.6	14928	954	20	no	no	no	no	no	
18038.71c	37.6366	endf70a	ENDF/B-VII.0	1992	600	14850	943	20	no	no	no	no	no	
18038.72c	37.6366	endf70a	ENDF/B-VII.0	1992	900	14928	954	20	no	no	no	no	no	
18038.73c	37.6366	endf70a	ENDF/B-VII.0	1992	1200	14920	953	20	no	no	no	no	no	
18038.74c	37.6366	endf70a	ENDF/B-VII.0	1992	2500	14822	939	20	no	no	no	no	no	
18038.710nc	37.6366	ENDF71x	ENDF/B-VII.1	1992	293.6	15536	924	20.0	no	no	no	no	yes	
18038.711nc	37.6366	ENDF71x	ENDF/B-VII.1	1992	600.0	15459	913	20.0	no	no	no	no	yes	
18038.712nc	37.6366	ENDF71x	ENDF/B-VII.1	1992	900.0	15537	924	20.0	no	no	no	no	yes	
18038.713nc	37.6366	ENDF71x	ENDF/B-VII.1	1992	1200.0	15529	923	20.0	no	no	no	no	yes	
18038.714nc	37.6366	ENDF71x	ENDF/B-VII.1	1992	2500.0	15431	909	20.0	no	no	no	no	yes	
18038.715nc	37.6366	ENDF71x	ENDF/B-VII.1	1992	0.1	15984	988	20.0	no	no	no	no	yes	
18038.716nc	37.6366	ENDF71x	ENDF/B-VII.1	1992	250.0	15530	923	20.0	no	no	no	no	yes	
Ar-40														
18040.80c	39.6191	ENDF71x	ENDF/B-VII.1	1994	293.6	206450	23603	20.0	no	no	no	no	no	
18040.81c	39.6191	ENDF71x	ENDF/B-VII.1	1994	600.0	204236	23287	20.0	no	no	no	no	no	
18040.82c	39.6191	ENDF71x	ENDF/B-VII.1	1994	900.0	202598	23053	20.0	no	no	no	no	no	
18040.83c	39.6191	ENDF71x	ENDF/B-VII.1	1994	1200.0	201484	22894	20.0	no	no	no	no	no	
18040.84c	39.6191	ENDF71x	ENDF/B-VII.1	1994	2500.0	198216	22427	20.0	no	no	no	no	no	
18040.85c	39.6191	ENDF71x	ENDF/B-VII.1	1994	0.1	214863	24805	20.0	no	no	no	no	no	
18040.86c	39.6191	ENDF71x	ENDF/B-VII.1	1994	250.0	206764	23648	20.0	no	no	no	no	no	
18040.70c	39.6191	endf70a	ENDF/B-VII.0	1994	293.6	206449	23603	20	no	no	no	no	no	
18040.71c	39.6191	endf70a	ENDF/B-VII.0	1994	600	204235	23287	20	no	no	no	no	no	
18040.72c	39.6191	endf70a	ENDF/B-VII.0	1994	900	202598	23053	20	no	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
18040.73c	39.6191	endf70a	ENDF/B-VII.0	1994	1200	201484	22894	20	no	no	no	no	no	
18040.74c	39.6191	endf70a	ENDF/B-VII.0	1994	2500	198216	22427	20	no	no	no	no	no	
18040.710nc	39.6191	ENDF71x	ENDF/B-VII.1	1994	293.6	206450	23603	20.0	no	no	no	no	no	
18040.711nc	39.6191	ENDF71x	ENDF/B-VII.1	1994	600.0	204236	23287	20.0	no	no	no	no	no	
18040.712nc	39.6191	ENDF71x	ENDF/B-VII.1	1994	900.0	202598	23053	20.0	no	no	no	no	no	
18040.713nc	39.6191	ENDF71x	ENDF/B-VII.1	1994	1200.0	201484	22894	20.0	no	no	no	no	no	
18040.714nc	39.6191	ENDF71x	ENDF/B-VII.1	1994	2500.0	198216	22427	20.0	no	no	no	no	no	
18040.715nc	39.6191	ENDF71x	ENDF/B-VII.1	1994	0.1	214863	24805	20.0	no	no	no	no	no	
18040.716nc	39.6191	ENDF71x	ENDF/B-VII.1	1994	250.0	206764	23648	20.0	no	no	no	no	no	
				Z = 19, potassium										
K-0														
19000.62c	38.766	actia	ENDF/B-VI.8	2000	293.6	52304	2734	20	yes	no	no	no	no	
19000.66c	38.766	endf66a	ENDF/B-VI.0	1974	293.6	51384	2734	20	yes	no	no	no	no	
19000.60c	38.766	endf60	ENDF/B-VI.0	1974	293.6	24482	1767	20	yes	no	no	no	no	
19000.51c	38.766	rmccs	ENDF/B-V.0	1974	293.6	18798	1046	20	yes	no	no	no	no	
19000.50c	38.766	endf5u	ENDF/B-V.0	1974	293.6	22051	1243	20	yes	no	no	no	no	
19000.42c	38.7624	endl92	LLNL	<1992	300	11060	544	30	yes	no	no	no	no	
K-39														
19039.80c	38.6293	ENDF71x	ENDF/B-VII.1	2007	293.6	275732	24943	20.0	yes	no	no	no	no	
19039.81c	38.6293	ENDF71x	ENDF/B-VII.1	2007	600.0	270272	24397	20.0	yes	no	no	no	no	
19039.82c	38.6293	ENDF71x	ENDF/B-VII.1	2007	900.0	266043	23974	20.0	yes	no	no	no	no	
19039.83c	38.6293	ENDF71x	ENDF/B-VII.1	2007	1200.0	262382	23608	20.0	yes	no	no	no	no	
19039.84c	38.6293	ENDF71x	ENDF/B-VII.1	2007	2500.0	252862	22656	20.0	yes	no	no	no	no	
19039.85c	38.6293	ENDF71x	ENDF/B-VII.1	2007	0.1	297572	27127	20.0	yes	no	no	no	no	
19039.86c	38.6293	ENDF71x	ENDF/B-VII.1	2007	250.0	277263	25096	20.0	yes	no	no	no	no	

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
19039.70c	38.6293	endf70a	ENDF/B-VII.0	2001	293.6	90487	6332	20	yes	no	no	no	no	
19039.71c	38.6293	endf70a	ENDF/B-VII.0	2001	600	89277	6211	20	yes	no	no	no	no	
19039.72c	38.6293	endf70a	ENDF/B-VII.0	2001	900	88997	6183	20	yes	no	no	no	no	
19039.73c	38.6293	endf70a	ENDF/B-VII.0	2001	1200	88598	6143	20	yes	no	no	no	no	
19039.74c	38.6293	endf70a	ENDF/B-VII.0	2001	2500	86917	5975	20	yes	no	no	no	no	
19039.710nc	38.6293	ENDF71x	ENDF/B-VII.1	2007	293.6	275732	24943	20.0	yes	no	no	no	no	
19039.711nc	38.6293	ENDF71x	ENDF/B-VII.1	2007	600.0	270272	24397	20.0	yes	no	no	no	no	
19039.712nc	38.6293	ENDF71x	ENDF/B-VII.1	2007	900.0	266043	23974	20.0	yes	no	no	no	no	
19039.713nc	38.6293	ENDF71x	ENDF/B-VII.1	2007	1200.0	262382	23608	20.0	yes	no	no	no	no	
19039.714nc	38.6293	ENDF71x	ENDF/B-VII.1	2007	2500.0	252862	22656	20.0	yes	no	no	no	no	
19039.715nc	38.6293	ENDF71x	ENDF/B-VII.1	2007	0.1	297572	27127	20.0	yes	no	no	no	no	
19039.716nc	38.6293	ENDF71x	ENDF/B-VII.1	2007	250.0	277263	25096	20.0	yes	no	no	no	no	
K-40														
19040.80c	39.6207	ENDF71x	ENDF/B-VII.1	2001	293.6	39638	834	20.0	yes	no	no	no	no	
19040.81c	39.6207	ENDF71x	ENDF/B-VII.1	2001	600.0	39590	830	20.0	yes	no	no	no	no	
19040.82c	39.6207	ENDF71x	ENDF/B-VII.1	2001	900.0	39590	830	20.0	yes	no	no	no	no	
19040.83c	39.6207	ENDF71x	ENDF/B-VII.1	2001	1200.0	39590	830	20.0	yes	no	no	no	no	
19040.84c	39.6207	ENDF71x	ENDF/B-VII.1	2001	2500.0	39566	828	20.0	yes	no	no	no	no	
19040.85c	39.6207	ENDF71x	ENDF/B-VII.1	2001	0.1	39854	852	20.0	yes	no	no	no	no	
19040.86c	39.6207	ENDF71x	ENDF/B-VII.1	2001	250.0	39638	834	20.0	yes	no	no	no	no	
19040.70c	39.6207	endf70a	ENDF/B-VII.0	2001	293.6	39638	834	20	yes	no	no	no	no	
19040.71c	39.6207	endf70a	ENDF/B-VII.0	2001	600	39590	830	20	yes	no	no	no	no	
19040.72c	39.6207	endf70a	ENDF/B-VII.0	2001	900	39590	830	20	yes	no	no	no	no	
19040.73c	39.6207	endf70a	ENDF/B-VII.0	2001	1200	39590	830	20	yes	no	no	no	no	
19040.74c	39.6207	endf70a	ENDF/B-VII.0	2001	2500	39566	828	20	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
19040.710nc	39.6207	ENDF71x	ENDF/B-VII.1	2001	293.6	39638	834	20.0	yes	no	no	no	no	
19040.711nc	39.6207	ENDF71x	ENDF/B-VII.1	2001	600.0	39590	830	20.0	yes	no	no	no	no	
19040.712nc	39.6207	ENDF71x	ENDF/B-VII.1	2001	900.0	39590	830	20.0	yes	no	no	no	no	
19040.713nc	39.6207	ENDF71x	ENDF/B-VII.1	2001	1200.0	39590	830	20.0	yes	no	no	no	no	
19040.714nc	39.6207	ENDF71x	ENDF/B-VII.1	2001	2500.0	39566	828	20.0	yes	no	no	no	no	
19040.715nc	39.6207	ENDF71x	ENDF/B-VII.1	2001	0.1	39854	852	20.0	yes	no	no	no	no	
19040.716nc	39.6207	ENDF71x	ENDF/B-VII.1	2001	250.0	39638	834	20.0	yes	no	no	no	no	
K-41														
19041.80c	40.6101	ENDF71x	ENDF/B-VII.1	2007	293.6	336434	33384	20.0	yes	no	no	no	no	
19041.81c	40.6101	ENDF71x	ENDF/B-VII.1	2007	600.0	332074	32839	20.0	yes	no	no	no	no	
19041.82c	40.6101	ENDF71x	ENDF/B-VII.1	2007	900.0	330122	32595	20.0	yes	no	no	no	no	
19041.83c	40.6101	ENDF71x	ENDF/B-VII.1	2007	1200.0	328202	32355	20.0	yes	no	no	no	no	
19041.84c	40.6101	ENDF71x	ENDF/B-VII.1	2007	2500.0	322962	31700	20.0	yes	no	no	no	no	
19041.85c	40.6101	ENDF71x	ENDF/B-VII.1	2007	0.1	353938	35572	20.0	yes	no	no	no	no	
19041.86c	40.6101	ENDF71x	ENDF/B-VII.1	2007	250.0	337219	33482	20.0	yes	no	no	no	no	
19041.70c	40.6101	endf70a	ENDF/B-VII.0	2001	293.6	69480	5354	20	yes	no	no	no	no	
19041.71c	40.6101	endf70a	ENDF/B-VII.0	2001	600	69240	5324	20	yes	no	no	no	no	
19041.72c	40.6101	endf70a	ENDF/B-VII.0	2001	900	68976	5291	20	yes	no	no	no	no	
19041.73c	40.6101	endf70a	ENDF/B-VII.0	2001	1200	68672	5253	20	yes	no	no	no	no	
19041.74c	40.6101	endf70a	ENDF/B-VII.0	2001	2500	67993	5168	20	yes	no	no	no	no	
19041.710nc	40.6101	ENDF71x	ENDF/B-VII.1	2007	293.6	336434	33384	20.0	yes	no	no	no	no	
19041.711nc	40.6101	ENDF71x	ENDF/B-VII.1	2007	600.0	332074	32839	20.0	yes	no	no	no	no	
19041.712nc	40.6101	ENDF71x	ENDF/B-VII.1	2007	900.0	330122	32595	20.0	yes	no	no	no	no	
19041.713nc	40.6101	ENDF71x	ENDF/B-VII.1	2007	1200.0	328202	32355	20.0	yes	no	no	no	no	
19041.714nc	40.6101	ENDF71x	ENDF/B-VII.1	2007	2500.0	322962	31700	20.0	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
19041.715nc	40.6101	ENDF71x	ENDF/B-VII.1	2007	0.1	353938	35572	20.0	yes	no	no	no	no	
19041.716nc	40.6101	ENDF71x	ENDF/B-VII.1	2007	250.0	337219	33482	20.0	yes	no	no	no	no	
Z = 20, calcium														
Ca-0														
20000.62c	39.736	actia	ENDF/B-VI.8	2000	293.6	187296	4344	150	yes	no	yes	no	no	
20000.61c	39.736	actib	ENDF/B-VI.8	2000	77	185636	4178	150	yes	no	yes	no	no	
20000.66c	39.736	endf66a	ENDF/B-VI.6	1997	293.6	186569	4345	150	yes	no	yes	no	no	
20000.64c	39.736	endf66d	ENDF/B-VI.6	1997	77	184909	4179	150	yes	no	yes	no	no	
20000.60c	39.736	endf60	ENDF/B-VI.0	1980	293.6	76468	2704	20	yes	no	no	no	no	
20000.51c	39.736	rmccs	ENDF/B-V.0	1976	293.6	53372	1796	20	yes	no	no	no	no	
20000.50c	39.736	endf5u	ENDF/B-V.0	1976	293.6	62624	2394	20	yes	no	no	no	no	
20000.42c	39.7357	endl92	LLNL	<1992	300	13946	1002	30	yes	no	no	no	no	
20000.24c	39.736	la150n	ENDF/B-VI.6	1997	293.6	187818	4470	150	yes	no	yes	no	no	
Ca-40														
20040.80c	39.6193	ENDF71x	ENDF/B-VII.1	2004	293.6	389582	9591	200.0	yes	no	yes	no	no	
20040.81c	39.6193	ENDF71x	ENDF/B-VII.1	2004	600.0	386567	9359	200.0	yes	no	yes	no	no	
20040.82c	39.6193	ENDF71x	ENDF/B-VII.1	2004	900.0	384798	9223	200.0	yes	no	yes	no	no	
20040.83c	39.6193	ENDF71x	ENDF/B-VII.1	2004	1200.0	383500	9123	200.0	yes	no	yes	no	no	
20040.84c	39.6193	ENDF71x	ENDF/B-VII.1	2004	2500.0	380133	8864	200.0	yes	no	yes	no	no	
20040.85c	39.6193	ENDF71x	ENDF/B-VII.1	2004	0.1	405612	10824	200.0	yes	no	yes	no	no	
20040.86c	39.6193	ENDF71x	ENDF/B-VII.1	2004	250.0	390364	9651	200.0	yes	no	yes	no	no	
20040.70c	39.6193	endf70a	ENDF/B-VII.0	2004	293.6	389582	9591	200	yes	no	yes	no	no	
20040.71c	39.6193	endf70a	ENDF/B-VII.0	2004	600	386567	9359	200	yes	no	yes	no	no	
20040.72c	39.6193	endf70a	ENDF/B-VII.0	2004	900	384798	9223	200	yes	no	yes	no	no	
20040.73c	39.6193	endf70a	ENDF/B-VII.0	2004	1200	383500	9123	200	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
20040.74c	39.6193	endf70a	ENDF/B-VII.0	2004	2500	380133	8864	200	yes	no	yes	no	no	
20040.21c	39.6193	100xs	LANL/T:X	1989	300	53013	2718	100	yes	no	no	no	no	3
20040.710nc	39.6193	ENDF71x	ENDF/B-VII.1	2004	293.6	389582	9591	200.0	yes	no	yes	no	no	
20040.711nc	39.6193	ENDF71x	ENDF/B-VII.1	2004	600.0	386567	9359	200.0	yes	no	yes	no	no	
20040.712nc	39.6193	ENDF71x	ENDF/B-VII.1	2004	900.0	384798	9223	200.0	yes	no	yes	no	no	
20040.713nc	39.6193	ENDF71x	ENDF/B-VII.1	2004	1200.0	383500	9123	200.0	yes	no	yes	no	no	
20040.714nc	39.6193	ENDF71x	ENDF/B-VII.1	2004	2500.0	380133	8864	200.0	yes	no	yes	no	no	
20040.715nc	39.6193	ENDF71x	ENDF/B-VII.1	2004	0.1	405612	10824	200.0	yes	no	yes	no	no	
20040.716nc	39.6193	ENDF71x	ENDF/B-VII.1	2004	250.0	390364	9651	200.0	yes	no	yes	no	no	
Ca-42														
20042.80c	41.59818	ENDF71x	ENDF/B-VII.1	2004	293.6	324033	8173	200.0	yes	no	yes	no	no	
20042.81c	41.59818	ENDF71x	ENDF/B-VII.1	2004	600.0	322288	7955	200.0	yes	no	yes	no	no	
20042.82c	41.59818	ENDF71x	ENDF/B-VII.1	2004	900.0	321449	7850	200.0	yes	no	yes	no	no	
20042.83c	41.59818	ENDF71x	ENDF/B-VII.1	2004	1200.0	320816	7771	200.0	yes	no	yes	no	no	
20042.84c	41.59818	ENDF71x	ENDF/B-VII.1	2004	2500.0	319217	7571	200.0	yes	no	yes	no	no	
20042.85c	41.59818	ENDF71x	ENDF/B-VII.1	2004	0.1	330377	8966	200.0	yes	no	yes	no	no	
20042.86c	41.59818	ENDF71x	ENDF/B-VII.1	2004	250.0	324288	8205	200.0	yes	no	yes	no	no	
20042.70c	41.59818	endf70a	ENDF/B-VII.0	2004	293.6	323634	8175	200	yes	no	yes	no	no	
20042.71c	41.59818	endf70a	ENDF/B-VII.0	2004	600	321889	7957	200	yes	no	yes	no	no	
20042.72c	41.59818	endf70a	ENDF/B-VII.0	2004	900	321050	7852	200	yes	no	yes	no	no	
20042.73c	41.59818	endf70a	ENDF/B-VII.0	2004	1200	320417	7773	200	yes	no	yes	no	no	
20042.74c	41.59818	endf70a	ENDF/B-VII.0	2004	2500	318818	7573	200	yes	no	yes	no	no	
20042.710nc	41.59818	ENDF71x	ENDF/B-VII.1	2004	293.6	324033	8173	200.0	yes	no	yes	no	no	
20042.711nc	41.59818	ENDF71x	ENDF/B-VII.1	2004	600.0	322288	7955	200.0	yes	no	yes	no	no	
20042.712nc	41.59818	ENDF71x	ENDF/B-VII.1	2004	900.0	321449	7850	200.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
20042.713nc	41.59818	ENDF71x	ENDF/B-VII.1	2004	1200.0	320816	7771	200.0	yes	no	yes	no	no	
20042.714nc	41.59818	ENDF71x	ENDF/B-VII.1	2004	2500.0	319217	7571	200.0	yes	no	yes	no	no	
20042.715nc	41.59818	ENDF71x	ENDF/B-VII.1	2004	0.1	330377	8966	200.0	yes	no	yes	no	no	
20042.716nc	41.59818	ENDF71x	ENDF/B-VII.1	2004	250.0	324288	8205	200.0	yes	no	yes	no	no	
Ca-43														
20043.80c	42.58973	ENDF71x	ENDF/B-VII.1	2004	293.6	356341	6348	200.0	yes	no	yes	no	no	
20043.81c	42.58973	ENDF71x	ENDF/B-VII.1	2004	600.0	354548	6220	200.0	yes	no	yes	no	no	
20043.82c	42.58973	ENDF71x	ENDF/B-VII.1	2004	900.0	353709	6160	200.0	yes	no	yes	no	no	
20043.83c	42.58973	ENDF71x	ENDF/B-VII.1	2004	1200.0	353204	6124	200.0	yes	no	yes	no	no	
20043.84c	42.58973	ENDF71x	ENDF/B-VII.1	2004	2500.0	351595	6009	200.0	yes	no	yes	no	no	
20043.85c	42.58973	ENDF71x	ENDF/B-VII.1	2004	0.1	362052	6756	200.0	yes	no	yes	no	no	
20043.86c	42.58973	ENDF71x	ENDF/B-VII.1	2004	250.0	356676	6372	200.0	yes	no	yes	no	no	
20043.70c	42.58973	endf70a	ENDF/B-VII.0	2004	293.6	356357	6349	200	yes	no	yes	no	no	
20043.71c	42.58973	endf70a	ENDF/B-VII.0	2004	600	354565	6221	200	yes	no	yes	no	no	
20043.72c	42.58973	endf70a	ENDF/B-VII.0	2004	900	353725	6161	200	yes	no	yes	no	no	
20043.73c	42.58973	endf70a	ENDF/B-VII.0	2004	1200	353221	6125	200	yes	no	yes	no	no	
20043.74c	42.58973	endf70a	ENDF/B-VII.0	2004	2500	351612	6010	200	yes	no	yes	no	no	
20043.710nc	42.58973	ENDF71x	ENDF/B-VII.1	2004	293.6	356341	6348	200.0	yes	no	yes	no	no	
20043.711nc	42.58973	ENDF71x	ENDF/B-VII.1	2004	600.0	354548	6220	200.0	yes	no	yes	no	no	
20043.712nc	42.58973	ENDF71x	ENDF/B-VII.1	2004	900.0	353709	6160	200.0	yes	no	yes	no	no	
20043.713nc	42.58973	ENDF71x	ENDF/B-VII.1	2004	1200.0	353204	6124	200.0	yes	no	yes	no	no	
20043.714nc	42.58973	ENDF71x	ENDF/B-VII.1	2004	2500.0	351595	6009	200.0	yes	no	yes	no	no	
20043.715nc	42.58973	ENDF71x	ENDF/B-VII.1	2004	0.1	362052	6756	200.0	yes	no	yes	no	no	
20043.716nc	42.58973	ENDF71x	ENDF/B-VII.1	2004	250.0	356676	6372	200.0	yes	no	yes	no	no	
Ca-44														

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
20044.80c	43.57788	ENDF71x	ENDF/B-VII.1	2004	293.6	226383	5236	200.0	yes	no	yes	no	no	
20044.81c	43.57788	ENDF71x	ENDF/B-VII.1	2004	600.0	225504	5126	200.0	yes	no	yes	no	no	
20044.82c	43.57788	ENDF71x	ENDF/B-VII.1	2004	900.0	224957	5058	200.0	yes	no	yes	no	no	
20044.83c	43.57788	ENDF71x	ENDF/B-VII.1	2004	1200.0	224373	4985	200.0	yes	no	yes	no	no	
20044.84c	43.57788	ENDF71x	ENDF/B-VII.1	2004	2500.0	223326	4854	200.0	yes	no	yes	no	no	
20044.85c	43.57788	ENDF71x	ENDF/B-VII.1	2004	0.1	231837	5918	200.0	yes	no	yes	no	no	
20044.86c	43.57788	ENDF71x	ENDF/B-VII.1	2004	250.0	226797	5288	200.0	yes	no	yes	no	no	
20044.70c	43.57788	endf70a	ENDF/B-VII.0	2004	293.6	225990	5240	200	yes	no	yes	no	no	
20044.71c	43.57788	endf70a	ENDF/B-VII.0	2004	600	225112	5130	200	yes	no	yes	no	no	
20044.72c	43.57788	endf70a	ENDF/B-VII.0	2004	900	224567	5062	200	yes	no	yes	no	no	
20044.73c	43.57788	endf70a	ENDF/B-VII.0	2004	1200	223982	4989	200	yes	no	yes	no	no	
20044.74c	43.57788	endf70a	ENDF/B-VII.0	2004	2500	222935	4858	200	yes	no	yes	no	no	
20044.710nc	43.57788	ENDF71x	ENDF/B-VII.1	2004	293.6	226383	5236	200.0	yes	no	yes	no	no	
20044.711nc	43.57788	ENDF71x	ENDF/B-VII.1	2004	600.0	225504	5126	200.0	yes	no	yes	no	no	
20044.712nc	43.57788	ENDF71x	ENDF/B-VII.1	2004	900.0	224957	5058	200.0	yes	no	yes	no	no	
20044.713nc	43.57788	ENDF71x	ENDF/B-VII.1	2004	1200.0	224373	4985	200.0	yes	no	yes	no	no	
20044.714nc	43.57788	ENDF71x	ENDF/B-VII.1	2004	2500.0	223326	4854	200.0	yes	no	yes	no	no	
20044.715nc	43.57788	ENDF71x	ENDF/B-VII.1	2004	0.1	231837	5918	200.0	yes	no	yes	no	no	
20044.716nc	43.57788	ENDF71x	ENDF/B-VII.1	2004	250.0	226797	5288	200.0	yes	no	yes	no	no	
Ca-46														
20046.80c	45.55893	ENDF71x	ENDF/B-VII.1	2004	293.6	168836	1047	200.0	yes	no	yes	no	no	
20046.81c	45.55893	ENDF71x	ENDF/B-VII.1	2004	600.0	168801	1043	200.0	yes	no	yes	no	no	
20046.82c	45.55893	ENDF71x	ENDF/B-VII.1	2004	900.0	168790	1042	200.0	yes	no	yes	no	no	
20046.83c	45.55893	ENDF71x	ENDF/B-VII.1	2004	1200.0	168809	1044	200.0	yes	no	yes	no	no	
20046.84c	45.55893	ENDF71x	ENDF/B-VII.1	2004	2500.0	168827	1046	200.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
20046.85c	45.55893	ENDF71x	ENDF/B-VII.1	2004	0.1	168944	1061	200.0	yes	no	yes	no	no	
20046.86c	45.55893	ENDF71x	ENDF/B-VII.1	2004	250.0	168826	1046	200.0	yes	no	yes	no	no	
20046.70c	45.55893	endf70a	ENDF/B-VII.0	2004	293.6	168274	1047	200	yes	no	yes	no	no	
20046.71c	45.55893	endf70a	ENDF/B-VII.0	2004	600	168242	1043	200	yes	no	yes	no	no	
20046.72c	45.55893	endf70a	ENDF/B-VII.0	2004	900	168231	1042	200	yes	no	yes	no	no	
20046.73c	45.55893	endf70a	ENDF/B-VII.0	2004	1200	168254	1044	200	yes	no	yes	no	no	
20046.74c	45.55893	endf70a	ENDF/B-VII.0	2004	2500	168270	1046	200	yes	no	yes	no	no	
20046.710nc	45.55893	ENDF71x	ENDF/B-VII.1	2004	293.6	168836	1047	200.0	yes	no	yes	no	no	
20046.711nc	45.55893	ENDF71x	ENDF/B-VII.1	2004	600.0	168801	1043	200.0	yes	no	yes	no	no	
20046.712nc	45.55893	ENDF71x	ENDF/B-VII.1	2004	900.0	168790	1042	200.0	yes	no	yes	no	no	
20046.713nc	45.55893	ENDF71x	ENDF/B-VII.1	2004	1200.0	168809	1044	200.0	yes	no	yes	no	no	
20046.714nc	45.55893	ENDF71x	ENDF/B-VII.1	2004	2500.0	168827	1046	200.0	yes	no	yes	no	no	
20046.715nc	45.55893	ENDF71x	ENDF/B-VII.1	2004	0.1	168944	1061	200.0	yes	no	yes	no	no	
20046.716nc	45.55893	ENDF71x	ENDF/B-VII.1	2004	250.0	168826	1046	200.0	yes	no	yes	no	no	
Ca-48														
20048.80c	47.5406	ENDF71x	ENDF/B-VII.1	2004	293.6	147304	1578	200.0	yes	no	yes	no	no	
20048.81c	47.5406	ENDF71x	ENDF/B-VII.1	2004	600.0	147256	1572	200.0	yes	no	yes	no	no	
20048.82c	47.5406	ENDF71x	ENDF/B-VII.1	2004	900.0	147240	1570	200.0	yes	no	yes	no	no	
20048.83c	47.5406	ENDF71x	ENDF/B-VII.1	2004	1200.0	147208	1566	200.0	yes	no	yes	no	no	
20048.84c	47.5406	ENDF71x	ENDF/B-VII.1	2004	2500.0	147200	1565	200.0	yes	no	yes	no	no	
20048.85c	47.5406	ENDF71x	ENDF/B-VII.1	2004	0.1	147296	1577	200.0	yes	no	yes	no	no	
20048.86c	47.5406	ENDF71x	ENDF/B-VII.1	2004	250.0	147298	1577	200.0	yes	no	yes	no	no	
20048.70c	47.5406	endf70a	ENDF/B-VII.0	2004	293.6	146911	1582	200	yes	no	yes	no	no	
20048.71c	47.5406	endf70a	ENDF/B-VII.0	2004	600	146863	1576	200	yes	no	yes	no	no	
20048.72c	47.5406	endf70a	ENDF/B-VII.0	2004	900	146847	1574	200	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
20048.73c	47.5406	endf70a	ENDF/B-VII.0	2004	1200	146815	1570	200	yes	no	yes	no	no	
20048.74c	47.5406	endf70a	ENDF/B-VII.0	2004	2500	146807	1569	200	yes	no	yes	no	no	
20048.710nc	47.5406	ENDF71x	ENDF/B-VII.1	2004	293.6	147304	1578	200.0	yes	no	yes	no	no	
20048.711nc	47.5406	ENDF71x	ENDF/B-VII.1	2004	600.0	147256	1572	200.0	yes	no	yes	no	no	
20048.712nc	47.5406	ENDF71x	ENDF/B-VII.1	2004	900.0	147240	1570	200.0	yes	no	yes	no	no	
20048.713nc	47.5406	ENDF71x	ENDF/B-VII.1	2004	1200.0	147208	1566	200.0	yes	no	yes	no	no	
20048.714nc	47.5406	ENDF71x	ENDF/B-VII.1	2004	2500.0	147200	1565	200.0	yes	no	yes	no	no	
20048.715nc	47.5406	ENDF71x	ENDF/B-VII.1	2004	0.1	147296	1577	200.0	yes	no	yes	no	no	
20048.716nc	47.5406	ENDF71x	ENDF/B-VII.1	2004	250.0	147298	1577	200.0	yes	no	yes	no	no	
				Z = 21, scandium										
Sc-45														
21045.80c	44.5679	ENDF71x	ENDF/B-VII.1	2000	293.6	298865	25251	20.0	yes	no	no	no	no	
21045.81c	44.5679	ENDF71x	ENDF/B-VII.1	2000	600.0	297756	25140	20.0	yes	no	no	no	no	
21045.82c	44.5679	ENDF71x	ENDF/B-VII.1	2000	900.0	296985	25063	20.0	yes	no	no	no	no	
21045.83c	44.5679	ENDF71x	ENDF/B-VII.1	2000	1200.0	296614	25026	20.0	yes	no	no	no	no	
21045.84c	44.5679	ENDF71x	ENDF/B-VII.1	2000	2500.0	295105	24875	20.0	yes	no	no	no	no	
21045.85c	44.5679	ENDF71x	ENDF/B-VII.1	2000	0.1	303425	25707	20.0	yes	no	no	no	no	
21045.86c	44.5679	ENDF71x	ENDF/B-VII.1	2000	250.0	299075	25272	20.0	yes	no	no	no	no	
21045.70c	44.5679	endf70a	ENDF/B-VII.0:x	2000	293.6	299254	25283	20	yes	no	no	no	no	
21045.71c	44.5679	endf70a	ENDF/B-VII.0:x	2000	600	298145	25172	20	yes	no	no	no	no	
21045.72c	44.5679	endf70a	ENDF/B-VII.0:x	2000	900	297375	25095	20	yes	no	no	no	no	
21045.73c	44.5679	endf70a	ENDF/B-VII.0:x	2000	1200	297005	25058	20	yes	no	no	no	no	
21045.74c	44.5679	endf70a	ENDF/B-VII.0:x	2000	2500	295496	24907	20	yes	no	no	no	no	
21045.62c	44.5679	actia	ENDF/B-VI.8:X	2000	293.6	267570	22382	20	yes	no	no	no	no	
21045.66c	44.5679	endf66a	ENDF/B-VI.2:X	1992	293.6	256816	22383	20	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
21045.60c	44.5679	endf60	ENDF/B-VI.2	1992	293.6	105627	10639	20	yes	no	no	no	no	
21045.710nc	44.5679	ENDF71x	ENDF/B-VII.1	2000	293.6	298865	25251	20.0	yes	no	no	no	no	
21045.711nc	44.5679	ENDF71x	ENDF/B-VII.1	2000	600.0	297756	25140	20.0	yes	no	no	no	no	
21045.712nc	44.5679	ENDF71x	ENDF/B-VII.1	2000	900.0	296985	25063	20.0	yes	no	no	no	no	
21045.713nc	44.5679	ENDF71x	ENDF/B-VII.1	2000	1200.0	296614	25026	20.0	yes	no	no	no	no	
21045.714nc	44.5679	ENDF71x	ENDF/B-VII.1	2000	2500.0	295105	24875	20.0	yes	no	no	no	no	
21045.715nc	44.5679	ENDF71x	ENDF/B-VII.1	2000	0.1	303425	25707	20.0	yes	no	no	no	no	
21045.716nc	44.5679	ENDF71x	ENDF/B-VII.1	2000	250.0	299075	25272	20.0	yes	no	no	no	no	
Z = 22, titanium														
Ti-0														
22000.62c	47.4676	actia	ENDF/B-VI.8	2000	293.6	125641	10859	20	yes	no	no	no	no	
22000.61c	47.4676	actib	ENDF/B-VI.8	2000	77	131345	11427	20	yes	no	no	no	no	
22000.66c	47.4676	endf66a	ENDF/B-VI.0	1977	293.6	125336	10860	20	yes	no	no	no	no	
22000.64c	47.4676	endf66d	ENDF/B-VI.0	1977	77	131040	11428	20	yes	no	no	no	no	
22000.60c	47.4676	endf60	ENDF/B-VI.0	1977	293.6	76454	7761	20	yes	no	no	no	no	
22000.51c	47.4676	rmccs	ENDF/B-V.0	1977	293.6	31832	1934	20	yes	no	no	no	no	
22000.50c	47.4676	endf5u	ENDF/B-V.0	1977	293.6	54801	4434	20	yes	no	no	no	no	
22000.42c	47.4885	endl92	LLNL	<1992	300	8979	608	30	yes	no	no	no	no	
Ti-46														
22046.80c	45.5579	ENDF71x	ENDF/B-VII.1	2009	293.6	292164	15614	20.0	yes	no	yes	no	no	
22046.81c	45.5579	ENDF71x	ENDF/B-VII.1	2009	600.0	289586	15292	20.0	yes	no	yes	no	no	
22046.82c	45.5579	ENDF71x	ENDF/B-VII.1	2009	900.0	287091	14980	20.0	yes	no	yes	no	no	
22046.83c	45.5579	ENDF71x	ENDF/B-VII.1	2009	1200.0	285531	14785	20.0	yes	no	yes	no	no	
22046.84c	45.5579	ENDF71x	ENDF/B-VII.1	2009	2500.0	280981	14216	20.0	yes	no	yes	no	no	
22046.85c	45.5579	ENDF71x	ENDF/B-VII.1	2009	0.1	300739	16686	20.0	yes	no	yes	no	no	

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
22046.86c	45.5579	ENDF71x	ENDF/B-VII.1	2009	250.0	292819	15696	20.0	yes	no	yes	no	no	
22046.70c	45.5579	endf70a	ENDF/B-VII.0	2001	293.6	175861	12997	20	yes	no	yes	no	no	
22046.71c	45.5579	endf70a	ENDF/B-VII.0	2001	600	172443	12570	20	yes	no	yes	no	no	
22046.72c	45.5579	endf70a	ENDF/B-VII.0	2001	900	169964	12260	20	yes	no	yes	no	no	
22046.73c	45.5579	endf70a	ENDF/B-VII.0	2001	1200	168364	12060	20	yes	no	yes	no	no	
22046.74c	45.5579	endf70a	ENDF/B-VII.0	2001	2500	164042	11520	20	yes	no	yes	no	no	
22046.710nc	45.5579	ENDF71x	ENDF/B-VII.1	2009	293.6	292164	15614	20.0	yes	no	yes	no	no	
22046.711nc	45.5579	ENDF71x	ENDF/B-VII.1	2009	600.0	289586	15292	20.0	yes	no	yes	no	no	
22046.712nc	45.5579	ENDF71x	ENDF/B-VII.1	2009	900.0	287091	14980	20.0	yes	no	yes	no	no	
22046.713nc	45.5579	ENDF71x	ENDF/B-VII.1	2009	1200.0	285531	14785	20.0	yes	no	yes	no	no	
22046.714nc	45.5579	ENDF71x	ENDF/B-VII.1	2009	2500.0	280981	14216	20.0	yes	no	yes	no	no	
22046.715nc	45.5579	ENDF71x	ENDF/B-VII.1	2009	0.1	300739	16686	20.0	yes	no	yes	no	no	
22046.716nc	45.5579	ENDF71x	ENDF/B-VII.1	2009	250.0	292819	15696	20.0	yes	no	yes	no	no	
Ti-47														
22047.80c	46.5484	ENDF71x	ENDF/B-VII.1	2009	293.6	232002	5673	20.0	yes	no	yes	no	no	
22047.81c	46.5484	ENDF71x	ENDF/B-VII.1	2009	600.0	231356	5592	20.0	yes	no	yes	no	no	
22047.82c	46.5484	ENDF71x	ENDF/B-VII.1	2009	900.0	231052	5554	20.0	yes	no	yes	no	no	
22047.83c	46.5484	ENDF71x	ENDF/B-VII.1	2009	1200.0	230818	5525	20.0	yes	no	yes	no	no	
22047.84c	46.5484	ENDF71x	ENDF/B-VII.1	2009	2500.0	229874	5407	20.0	yes	no	yes	no	no	
22047.85c	46.5484	ENDF71x	ENDF/B-VII.1	2009	0.1	233619	5875	20.0	yes	no	yes	no	no	
22047.86c	46.5484	ENDF71x	ENDF/B-VII.1	2009	250.0	232098	5685	20.0	yes	no	yes	no	no	
22047.70c	46.5484	endf70a	ENDF/B-VII.0	2001	293.6	142948	6896	20	yes	no	yes	no	no	
22047.71c	46.5484	endf70a	ENDF/B-VII.0	2001	600	141982	6775	20	yes	no	yes	no	no	
22047.72c	46.5484	endf70a	ENDF/B-VII.0	2001	900	141582	6725	20	yes	no	yes	no	no	
22047.73c	46.5484	endf70a	ENDF/B-VII.0	2001	1200	141255	6684	20	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
22047.74c	46.5484	endf70a	ENDF/B-VII.0	2001	2500	140239	6557	20	yes	no	yes	no	no	
22047.710nc	46.5484	ENDF71x	ENDF/B-VII.1	2009	293.6	232002	5673	20.0	yes	no	yes	no	no	
22047.711nc	46.5484	ENDF71x	ENDF/B-VII.1	2009	600.0	231356	5592	20.0	yes	no	yes	no	no	
22047.712nc	46.5484	ENDF71x	ENDF/B-VII.1	2009	900.0	231052	5554	20.0	yes	no	yes	no	no	
22047.713nc	46.5484	ENDF71x	ENDF/B-VII.1	2009	1200.0	230818	5525	20.0	yes	no	yes	no	no	
22047.714nc	46.5484	ENDF71x	ENDF/B-VII.1	2009	2500.0	229874	5407	20.0	yes	no	yes	no	no	
22047.715nc	46.5484	ENDF71x	ENDF/B-VII.1	2009	0.1	233619	5875	20.0	yes	no	yes	no	no	
22047.716nc	46.5484	ENDF71x	ENDF/B-VII.1	2009	250.0	232098	5685	20.0	yes	no	yes	no	no	
Ti-48														
22048.80c	47.5361	ENDF71x	ENDF/B-VII.1	2010	293.6	265628	14353	20.0	yes	no	yes	no	no	
22048.81c	47.5361	ENDF71x	ENDF/B-VII.1	2010	600.0	261459	13832	20.0	yes	no	yes	no	no	
22048.82c	47.5361	ENDF71x	ENDF/B-VII.1	2010	900.0	258779	13497	20.0	yes	no	yes	no	no	
22048.83c	47.5361	ENDF71x	ENDF/B-VII.1	2010	1200.0	256884	13260	20.0	yes	no	yes	no	no	
22048.84c	47.5361	ENDF71x	ENDF/B-VII.1	2010	2500.0	251898	12637	20.0	yes	no	yes	no	no	
22048.85c	47.5361	ENDF71x	ENDF/B-VII.1	2010	0.1	287851	17131	20.0	yes	no	yes	no	no	
22048.86c	47.5361	ENDF71x	ENDF/B-VII.1	2010	250.0	266459	14457	20.0	yes	no	yes	no	no	
22048.70c	47.556	endf70a	ENDF/B-VII.0	2001	293.6	139249	7610	20	yes	no	yes	no	no	
22048.71c	47.556	endf70a	ENDF/B-VII.0	2001	600	137823	7432	20	yes	no	yes	no	no	
22048.72c	47.556	endf70a	ENDF/B-VII.0	2001	900	137016	7331	20	yes	no	yes	no	no	
22048.73c	47.556	endf70a	ENDF/B-VII.0	2001	1200	136358	7249	20	yes	no	yes	no	no	
22048.74c	47.556	endf70a	ENDF/B-VII.0	2001	2500	134350	6998	20	yes	no	yes	no	no	
22048.710nc	47.5361	ENDF71x	ENDF/B-VII.1	2010	293.6	265628	14353	20.0	yes	no	yes	no	no	
22048.711nc	47.5361	ENDF71x	ENDF/B-VII.1	2010	600.0	261459	13832	20.0	yes	no	yes	no	no	
22048.712nc	47.5361	ENDF71x	ENDF/B-VII.1	2010	900.0	258779	13497	20.0	yes	no	yes	no	no	
22048.713nc	47.5361	ENDF71x	ENDF/B-VII.1	2010	1200.0	256884	13260	20.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
22048.714nc	47.5361	ENDF71x	ENDF/B-VII.1	2010	2500.0	251898	12637	20.0	yes	no	yes	no	no	
22048.715nc	47.5361	ENDF71x	ENDF/B-VII.1	2010	0.1	287851	17131	20.0	yes	no	yes	no	no	
22048.716nc	47.5361	ENDF71x	ENDF/B-VII.1	2010	250.0	266459	14457	20.0	yes	no	yes	no	no	
Ti-49														
22049.80c	48.5274	ENDF71x	ENDF/B-VII.1	2009	293.6	216168	7041	20.0	yes	no	yes	no	no	
22049.81c	48.5274	ENDF71x	ENDF/B-VII.1	2009	600.0	214879	6880	20.0	yes	no	yes	no	no	
22049.82c	48.5274	ENDF71x	ENDF/B-VII.1	2009	900.0	214000	6770	20.0	yes	no	yes	no	no	
22049.83c	48.5274	ENDF71x	ENDF/B-VII.1	2009	1200.0	213735	6737	20.0	yes	no	yes	no	no	
22049.84c	48.5274	ENDF71x	ENDF/B-VII.1	2009	2500.0	212087	6531	20.0	yes	no	yes	no	no	
22049.85c	48.5274	ENDF71x	ENDF/B-VII.1	2009	0.1	224976	8142	20.0	yes	no	yes	no	no	
22049.86c	48.5274	ENDF71x	ENDF/B-VII.1	2009	250.0	216551	7089	20.0	yes	no	yes	no	no	
22049.70c	48.5274	endf70a	ENDF/B-VII.0	2001	293.6	115896	4997	20	yes	no	yes	no	no	
22049.71c	48.5274	endf70a	ENDF/B-VII.0	2001	600	115415	4937	20	yes	no	yes	no	no	
22049.72c	48.5274	endf70a	ENDF/B-VII.0	2001	900	115088	4896	20	yes	no	yes	no	no	
22049.73c	48.5274	endf70a	ENDF/B-VII.0	2001	1200	114855	4867	20	yes	no	yes	no	no	
22049.74c	48.5274	endf70a	ENDF/B-VII.0	2001	2500	114135	4777	20	yes	no	yes	no	no	
22049.710nc	48.5274	ENDF71x	ENDF/B-VII.1	2009	293.6	216168	7041	20.0	yes	no	yes	no	no	
22049.711nc	48.5274	ENDF71x	ENDF/B-VII.1	2009	600.0	214879	6880	20.0	yes	no	yes	no	no	
22049.712nc	48.5274	ENDF71x	ENDF/B-VII.1	2009	900.0	214000	6770	20.0	yes	no	yes	no	no	
22049.713nc	48.5274	ENDF71x	ENDF/B-VII.1	2009	1200.0	213735	6737	20.0	yes	no	yes	no	no	
22049.714nc	48.5274	ENDF71x	ENDF/B-VII.1	2009	2500.0	212087	6531	20.0	yes	no	yes	no	no	
22049.715nc	48.5274	ENDF71x	ENDF/B-VII.1	2009	0.1	224976	8142	20.0	yes	no	yes	no	no	
22049.716nc	48.5274	ENDF71x	ENDF/B-VII.1	2009	250.0	216551	7089	20.0	yes	no	yes	no	no	
Ti-50														
22050.80c	49.5157	ENDF71x	ENDF/B-VII.1	2009	293.6	161928	5108	20.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
22050.81c	49.5157	ENDF71x	ENDF/B-VII.1	2009	600.0	161279	5027	20.0	yes	no	yes	no	no	
22050.82c	49.5157	ENDF71x	ENDF/B-VII.1	2009	900.0	161079	5002	20.0	yes	no	yes	no	no	
22050.83c	49.5157	ENDF71x	ENDF/B-VII.1	2009	1200.0	160831	4971	20.0	yes	no	yes	no	no	
22050.84c	49.5157	ENDF71x	ENDF/B-VII.1	2009	2500.0	159734	4834	20.0	yes	no	yes	no	no	
22050.85c	49.5157	ENDF71x	ENDF/B-VII.1	2009	0.1	164304	5405	20.0	yes	no	yes	no	no	
22050.86c	49.5157	ENDF71x	ENDF/B-VII.1	2009	250.0	162000	5117	20.0	yes	no	yes	no	no	
22050.70c	49.5157	endf70a	ENDF/B-VII.0	2001	293.6	100283	4594	20	yes	no	yes	no	no	
22050.71c	49.5157	endf70a	ENDF/B-VII.0	2001	600	99770	4530	20	yes	no	yes	no	no	
22050.72c	49.5157	endf70a	ENDF/B-VII.0	2001	900	99449	4490	20	yes	no	yes	no	no	
22050.73c	49.5157	endf70a	ENDF/B-VII.0	2001	1200	99122	4449	20	yes	no	yes	no	no	
22050.74c	49.5157	endf70a	ENDF/B-VII.0	2001	2500	98266	4342	20	yes	no	yes	no	no	
22050.710nc	49.5157	ENDF71x	ENDF/B-VII.1	2009	293.6	161928	5108	20.0	yes	no	yes	no	no	
22050.711nc	49.5157	ENDF71x	ENDF/B-VII.1	2009	600.0	161279	5027	20.0	yes	no	yes	no	no	
22050.712nc	49.5157	ENDF71x	ENDF/B-VII.1	2009	900.0	161079	5002	20.0	yes	no	yes	no	no	
22050.713nc	49.5157	ENDF71x	ENDF/B-VII.1	2009	1200.0	160831	4971	20.0	yes	no	yes	no	no	
22050.714nc	49.5157	ENDF71x	ENDF/B-VII.1	2009	2500.0	159734	4834	20.0	yes	no	yes	no	no	
22050.715nc	49.5157	ENDF71x	ENDF/B-VII.1	2009	0.1	164304	5405	20.0	yes	no	yes	no	no	
22050.716nc	49.5157	ENDF71x	ENDF/B-VII.1	2009	250.0	162000	5117	20.0	yes	no	yes	no	no	
				Z = 23, vanadium										
V-0														
23000.70c	50.504	endf70a	ENDF/B-VII.0	2005	293.6	202479	10725	20	yes	no	no	no	no	
23000.71c	50.504	endf70a	ENDF/B-VII.0	2005	600	201334	10582	20	yes	no	no	no	no	
23000.72c	50.504	endf70a	ENDF/B-VII.0	2005	900	200566	10486	20	yes	no	no	no	no	
23000.73c	50.504	endf70a	ENDF/B-VII.0	2005	1200	200430	10469	20	yes	no	no	no	no	
23000.74c	50.504	endf70a	ENDF/B-VII.0	2005	2500	199326	10331	20	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
23000.62c	50.504	actia	ENDF/B-VI.8	2000	293.6	198692	10393	20	yes	no	no	no	no	
23000.66c	50.504	endf66a	ENDF/B-VI.0	1988	293.6	192051	10393	20	yes	no	no	no	no	
23000.60c	50.504	endf60	ENDF/B-VI.0	1988	293.6	167334	8957	20	yes	no	no	no	no	
23000.51c	50.504	rmccs	ENDF/B-V.0	1977	293.6	34110	1899	20	yes	no	no	no	no	
23000.50c	50.504	endf5u	ENDF/B-V.0	1977	293.6	38312	2265	20	yes	no	no	no	no	
V-50														
23050.80c	49.5181	ENDF71x	ENDF/B-VII.1	2003	293.6	274811	3857	20.0	yes	no	yes	no	no	
23050.81c	49.5181	ENDF71x	ENDF/B-VII.1	2003	600.0	274797	3856	20.0	yes	no	yes	no	no	
23050.82c	49.5181	ENDF71x	ENDF/B-VII.1	2003	900.0	274757	3852	20.0	yes	no	yes	no	no	
23050.83c	49.5181	ENDF71x	ENDF/B-VII.1	2003	1200.0	274677	3844	20.0	yes	no	yes	no	no	
23050.84c	49.5181	ENDF71x	ENDF/B-VII.1	2003	2500.0	274568	3833	20.0	yes	no	yes	no	no	
23050.85c	49.5181	ENDF71x	ENDF/B-VII.1	2003	0.1	274807	3857	20.0	yes	no	yes	no	no	
23050.86c	49.5181	ENDF71x	ENDF/B-VII.1	2003	250.0	274808	3857	20.0	yes	no	yes	no	no	
23050.710nc	49.5181	ENDF71x	ENDF/B-VII.1	2003	293.6	274811	3857	20.0	yes	no	yes	no	no	
23050.711nc	49.5181	ENDF71x	ENDF/B-VII.1	2003	600.0	274797	3856	20.0	yes	no	yes	no	no	
23050.712nc	49.5181	ENDF71x	ENDF/B-VII.1	2003	900.0	274757	3852	20.0	yes	no	yes	no	no	
23050.713nc	49.5181	ENDF71x	ENDF/B-VII.1	2003	1200.0	274677	3844	20.0	yes	no	yes	no	no	
23050.714nc	49.5181	ENDF71x	ENDF/B-VII.1	2003	2500.0	274568	3833	20.0	yes	no	yes	no	no	
23050.715nc	49.5181	ENDF71x	ENDF/B-VII.1	2003	0.1	274807	3857	20.0	yes	no	yes	no	no	
23050.716nc	49.5181	ENDF71x	ENDF/B-VII.1	2003	250.0	274808	3857	20.0	yes	no	yes	no	no	
V-51														
23051.80c	50.5063	ENDF71x	ENDF/B-VII.1	2010	293.6	396477	18588	20.0	yes	no	yes	no	no	
23051.81c	50.5063	ENDF71x	ENDF/B-VII.1	2010	600.0	394382	18326	20.0	yes	no	yes	no	no	
23051.82c	50.5063	ENDF71x	ENDF/B-VII.1	2010	900.0	393396	18203	20.0	yes	no	yes	no	no	
23051.83c	50.5063	ENDF71x	ENDF/B-VII.1	2010	1200.0	392517	18093	20.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
23051.84c	50.5063	ENDF71x	ENDF/B-VII.1	2010	2500.0	389941	17771	20.0	yes	no	yes	no	no	
23051.85c	50.5063	ENDF71x	ENDF/B-VII.1	2010	0.1	406717	19868	20.0	yes	no	yes	no	no	
23051.86c	50.5063	ENDF71x	ENDF/B-VII.1	2010	250.0	397077	18663	20.0	yes	no	yes	no	no	
23051.42c	50.5063	endl92	LLNL	<1992	300	94082	5988	30	yes	no	no	no	no	
23051.710nc	50.5063	ENDF71x	ENDF/B-VII.1	2010	293.6	396477	18588	20.0	yes	no	yes	no	no	
23051.711nc	50.5063	ENDF71x	ENDF/B-VII.1	2010	600.0	394382	18326	20.0	yes	no	yes	no	no	
23051.712nc	50.5063	ENDF71x	ENDF/B-VII.1	2010	900.0	393396	18203	20.0	yes	no	yes	no	no	
23051.713nc	50.5063	ENDF71x	ENDF/B-VII.1	2010	1200.0	392517	18093	20.0	yes	no	yes	no	no	
23051.714nc	50.5063	ENDF71x	ENDF/B-VII.1	2010	2500.0	389941	17771	20.0	yes	no	yes	no	no	
23051.715nc	50.5063	ENDF71x	ENDF/B-VII.1	2010	0.1	406717	19868	20.0	yes	no	yes	no	no	
23051.716nc	50.5063	ENDF71x	ENDF/B-VII.1	2010	250.0	397077	18663	20.0	yes	no	yes	no	no	
				Z = 24, chromium										
Cr-0														
24000.50c	51.549	rmccs	ENDF/B-V.0	1977	293.6	134454	11050	20	yes	no	no	no	no	
24000.42c	51.5493	endl92	LLNL	<1992	300	12573	377	30	yes	no	no	no	no	
Cr-50														
24050.80c	49.517	ENDF71x	ENDF/B-VII.1	2010	293.6	443825	34462	150.0	yes	no	yes	no	no	
24050.81c	49.517	ENDF71x	ENDF/B-VII.1	2010	600.0	433610	33185	150.0	yes	no	yes	no	no	
24050.82c	49.517	ENDF71x	ENDF/B-VII.1	2010	900.0	426170	32255	150.0	yes	no	yes	no	no	
24050.83c	49.517	ENDF71x	ENDF/B-VII.1	2010	1200.0	421649	31690	150.0	yes	no	yes	no	no	
24050.84c	49.517	ENDF71x	ENDF/B-VII.1	2010	2500.0	406194	29758	150.0	yes	no	yes	no	no	
24050.85c	49.517	ENDF71x	ENDF/B-VII.1	2010	0.1	484619	39561	150.0	yes	no	yes	no	no	
24050.86c	49.517	ENDF71x	ENDF/B-VII.1	2010	250.0	446537	34801	150.0	yes	no	yes	no	no	
24050.70c	49.517	endf70b	ENDF/B-VII.0	2004	293.6	432535	33355	150	yes	no	yes	no	no	
24050.71c	49.517	endf70b	ENDF/B-VII.0	2004	600	420967	31909	150	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
24050.72c	49.517	endf70b	ENDF/B-VII.0	2004	900	413312	30952	150	yes	no	yes	no	no	
24050.73c	49.517	endf70b	ENDF/B-VII.0	2004	1200	407327	30204	150	yes	no	yes	no	no	
24050.74c	49.517	endf70b	ENDF/B-VII.0	2004	2500	390816	28140	150	yes	no	yes	no	no	
24050.62c	49.517	actia	ENDF/B-VI.8	2000	293.6	390799	28138	150	yes	no	yes	no	no	
24050.61c	49.517	actib	ENDF/B-VI.8	2000	77	405367	29959	150	yes	no	yes	no	no	
24050.66c	49.517	endf66a	ENDF/B-VI.6	1997	293.6	388600	28139	150	yes	no	yes	no	no	
24050.64c	49.517	endf66d	ENDF/B-VI.6	1997	77	403120	29954	150	yes	no	yes	no	no	
24050.60c	49.517	endf60	ENDF/B-VI.1	1989	293.6	119178	11918	20	yes	no	no	no	no	
24050.24c	49.517	la150n	ENDF/B-VI.6	1997	293.6	391112	28453	150	yes	no	yes	no	no	
24050.710nc	49.517	ENDF71x	ENDF/B-VII.1	2010	293.6	443825	34462	150.0	yes	no	yes	no	no	
24050.711nc	49.517	ENDF71x	ENDF/B-VII.1	2010	600.0	433610	33185	150.0	yes	no	yes	no	no	
24050.712nc	49.517	ENDF71x	ENDF/B-VII.1	2010	900.0	426170	32255	150.0	yes	no	yes	no	no	
24050.713nc	49.517	ENDF71x	ENDF/B-VII.1	2010	1200.0	421649	31690	150.0	yes	no	yes	no	no	
24050.714nc	49.517	ENDF71x	ENDF/B-VII.1	2010	2500.0	406194	29758	150.0	yes	no	yes	no	no	
24050.715nc	49.517	ENDF71x	ENDF/B-VII.1	2010	0.1	484619	39561	150.0	yes	no	yes	no	no	
24050.716nc	49.517	ENDF71x	ENDF/B-VII.1	2010	250.0	446537	34801	150.0	yes	no	yes	no	no	
Cr-52														
24052.80c	51.494	ENDF71x	ENDF/B-VII.1	2010	293.6	457544	32805	150.0	yes	no	yes	no	no	
24052.81c	51.494	ENDF71x	ENDF/B-VII.1	2010	600.0	452688	32198	150.0	yes	no	yes	no	no	
24052.82c	51.494	ENDF71x	ENDF/B-VII.1	2010	900.0	448954	31731	150.0	yes	no	yes	no	no	
24052.83c	51.494	ENDF71x	ENDF/B-VII.1	2010	1200.0	446856	31469	150.0	yes	no	yes	no	no	
24052.84c	51.494	ENDF71x	ENDF/B-VII.1	2010	2500.0	440745	30705	150.0	yes	no	yes	no	no	
24052.85c	51.494	ENDF71x	ENDF/B-VII.1	2010	0.1	479536	35554	150.0	yes	no	yes	no	no	
24052.86c	51.494	ENDF71x	ENDF/B-VII.1	2010	250.0	458304	32900	150.0	yes	no	yes	no	no	
24052.70c	51.494	endf70b	ENDF/B-VII.0	2004	293.6	367089	23617	150	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
24052.71c	51.494	endf70b	ENDF/B-VII.0	2004	600	364000	23231	150	yes	no	yes	no	no	
24052.72c	51.494	endf70b	ENDF/B-VII.0	2004	900	361394	22905	150	yes	no	yes	no	no	
24052.73c	51.494	endf70b	ENDF/B-VII.0	2004	1200	359384	22654	150	yes	no	yes	no	no	
24052.74c	51.494	endf70b	ENDF/B-VII.0	2004	2500	352376	21778	150	yes	no	yes	no	no	
24052.62c	51.494	actia	ENDF/B-VI.8	2000	293.6	342461	20849	150	yes	no	yes	no	no	
24052.61c	51.494	actib	ENDF/B-VI.8	2000	77	344811	21143	150	yes	no	yes	no	no	
24052.66c	51.494	endf66a	ENDF/B-VI.6	1997	293.6	342098	20847	150	yes	no	yes	no	no	
24052.64c	51.494	endf66d	ENDF/B-VI.6	1997	77	344376	21132	150	yes	no	yes	no	no	
24052.60c	51.494	endf60	ENDF/B-VI.1	1989	293.6	117680	10679	20	yes	no	no	no	no	
24052.24c	51.494	la150n	ENDF/B-VI.6	1997	293.6	346350	21232	150	yes	no	yes	no	no	
24052.710nc	51.494	ENDF71x	ENDF/B-VII.1	2010	293.6	457544	32805	150.0	yes	no	yes	no	no	
24052.711nc	51.494	ENDF71x	ENDF/B-VII.1	2010	600.0	452688	32198	150.0	yes	no	yes	no	no	
24052.712nc	51.494	ENDF71x	ENDF/B-VII.1	2010	900.0	448954	31731	150.0	yes	no	yes	no	no	
24052.713nc	51.494	ENDF71x	ENDF/B-VII.1	2010	1200.0	446856	31469	150.0	yes	no	yes	no	no	
24052.714nc	51.494	ENDF71x	ENDF/B-VII.1	2010	2500.0	440745	30705	150.0	yes	no	yes	no	no	
24052.715nc	51.494	ENDF71x	ENDF/B-VII.1	2010	0.1	479536	35554	150.0	yes	no	yes	no	no	
24052.716nc	51.494	ENDF71x	ENDF/B-VII.1	2010	250.0	458304	32900	150.0	yes	no	yes	no	no	
Cr-53														
24053.80c	52.486	ENDF71x	ENDF/B-VII.1	2010	293.6	376104	24388	150.0	yes	no	yes	no	no	
24053.81c	52.486	ENDF71x	ENDF/B-VII.1	2010	600.0	370066	23633	150.0	yes	no	yes	no	no	
24053.82c	52.486	ENDF71x	ENDF/B-VII.1	2010	900.0	366800	23225	150.0	yes	no	yes	no	no	
24053.83c	52.486	ENDF71x	ENDF/B-VII.1	2010	1200.0	364080	22885	150.0	yes	no	yes	no	no	
24053.84c	52.486	ENDF71x	ENDF/B-VII.1	2010	2500.0	354272	21659	150.0	yes	no	yes	no	no	
24053.85c	52.486	ENDF71x	ENDF/B-VII.1	2010	0.1	399512	27314	150.0	yes	no	yes	no	no	
24053.86c	52.486	ENDF71x	ENDF/B-VII.1	2010	250.0	376904	24488	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
24053.70c	52.486	endf70b	ENDF/B-VII.0	2004	293.6	300551	15271	150	yes	no	yes	no	no	
24053.71c	52.486	endf70b	ENDF/B-VII.0	2004	600	296777	14799	150	yes	no	yes	no	no	
24053.72c	52.486	endf70b	ENDF/B-VII.0	2004	900	294407	14503	150	yes	no	yes	no	no	
24053.73c	52.486	endf70b	ENDF/B-VII.0	2004	1200	292455	14259	150	yes	no	yes	no	no	
24053.74c	52.486	endf70b	ENDF/B-VII.0	2004	2500	286991	13576	150	yes	no	yes	no	no	
24053.62c	52.486	actia	ENDF/B-VI.8	2000	293.6	287642	13657	150	yes	no	yes	no	no	
24053.61c	52.486	actib	ENDF/B-VI.8	2000	77	292322	14242	150	yes	no	yes	no	no	
24053.66c	52.486	endf66a	ENDF/B-VI.6	1997	293.6	284837	13652	150	yes	no	yes	no	no	
24053.64c	52.486	endf66d	ENDF/B-VI.6	1997	77	289469	14231	150	yes	no	yes	no	no	
24053.60c	52.486	endf60	ENDF/B-VI.1	1989	293.6	114982	10073	20	yes	no	no	no	no	
24053.24c	52.486	la150n	ENDF/B-VI.6	1997	293.6	286602	13873	150	yes	no	yes	no	no	
24053.710nc	52.486	ENDF71x	ENDF/B-VII.1	2010	293.6	376104	24388	150.0	yes	no	yes	no	no	
24053.711nc	52.486	ENDF71x	ENDF/B-VII.1	2010	600.0	370066	23633	150.0	yes	no	yes	no	no	
24053.712nc	52.486	ENDF71x	ENDF/B-VII.1	2010	900.0	366800	23225	150.0	yes	no	yes	no	no	
24053.713nc	52.486	ENDF71x	ENDF/B-VII.1	2010	1200.0	364080	22885	150.0	yes	no	yes	no	no	
24053.714nc	52.486	ENDF71x	ENDF/B-VII.1	2010	2500.0	354272	21659	150.0	yes	no	yes	no	no	
24053.715nc	52.486	ENDF71x	ENDF/B-VII.1	2010	0.1	399512	27314	150.0	yes	no	yes	no	no	
24053.716nc	52.486	ENDF71x	ENDF/B-VII.1	2010	250.0	376904	24488	150.0	yes	no	yes	no	no	
Cr-54														
24054.80c	53.476	ENDF71x	ENDF/B-VII.1	2010	293.6	276552	15322	150.0	yes	no	yes	no	no	
24054.81c	53.476	ENDF71x	ENDF/B-VII.1	2010	600.0	274335	15045	150.0	yes	no	yes	no	no	
24054.82c	53.476	ENDF71x	ENDF/B-VII.1	2010	900.0	273262	14911	150.0	yes	no	yes	no	no	
24054.83c	53.476	ENDF71x	ENDF/B-VII.1	2010	1200.0	272078	14763	150.0	yes	no	yes	no	no	
24054.84c	53.476	ENDF71x	ENDF/B-VII.1	2010	2500.0	268062	14261	150.0	yes	no	yes	no	no	
24054.85c	53.476	ENDF71x	ENDF/B-VII.1	2010	0.1	283774	16225	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
24054.86c	53.476	ENDF71x	ENDF/B-VII.1	2010	250.0	277078	15388	150.0	yes	no	yes	no	no	
24054.70c	53.476	endf70b	ENDF/B-VII.0	2004	293.6	273871	15260	150	yes	no	yes	no	no	
24054.71c	53.476	endf70b	ENDF/B-VII.0	2004	600	272325	15067	150	yes	no	yes	no	no	
24054.72c	53.476	endf70b	ENDF/B-VII.0	2004	900	271269	14935	150	yes	no	yes	no	no	
24054.73c	53.476	endf70b	ENDF/B-VII.0	2004	1200	270581	14849	150	yes	no	yes	no	no	
24054.74c	53.476	endf70b	ENDF/B-VII.0	2004	2500	266877	14386	150	yes	no	yes	no	no	
24054.62c	53.476	actia	ENDF/B-VI.8	2000	293.6	260423	13593	150	yes	no	yes	no	no	
24054.61c	53.476	actib	ENDF/B-VI.8	2000	77	262192	13814	150	yes	no	yes	no	no	
24054.66c	53.476	endf66a	ENDF/B-VI.6	1997	293.6	257750	13589	150	yes	no	yes	no	no	
24054.64c	53.476	endf66d	ENDF/B-VI.6	1997	77	259591	13819	150	yes	no	yes	no	no	
24054.60c	53.476	endf60	ENDF/B-VI.1	1989	293.6	98510	9699	20	yes	no	no	no	no	
24054.24c	53.476	la150n	ENDF/B-VI.6	1997	293.6	259040	13750	150	yes	no	yes	no	no	
24054.710nc	53.476	ENDF71x	ENDF/B-VII.1	2010	293.6	276552	15322	150.0	yes	no	yes	no	no	
24054.711nc	53.476	ENDF71x	ENDF/B-VII.1	2010	600.0	274335	15045	150.0	yes	no	yes	no	no	
24054.712nc	53.476	ENDF71x	ENDF/B-VII.1	2010	900.0	273262	14911	150.0	yes	no	yes	no	no	
24054.713nc	53.476	ENDF71x	ENDF/B-VII.1	2010	1200.0	272078	14763	150.0	yes	no	yes	no	no	
24054.714nc	53.476	ENDF71x	ENDF/B-VII.1	2010	2500.0	268062	14261	150.0	yes	no	yes	no	no	
24054.715nc	53.476	ENDF71x	ENDF/B-VII.1	2010	0.1	283774	16225	150.0	yes	no	yes	no	no	
24054.716nc	53.476	ENDF71x	ENDF/B-VII.1	2010	250.0	277078	15388	150.0	yes	no	yes	no	no	
				Z = 25, manganese										
Mn-55														
25055.80c	54.4661	ENDF71x	ENDF/B-VII.1	2009	293.6	589420	13802	60.0	yes	no	yes	no	yes	
25055.81c	54.4661	ENDF71x	ENDF/B-VII.1	2009	600.0	584515	13189	60.0	yes	no	yes	no	yes	
25055.82c	54.4661	ENDF71x	ENDF/B-VII.1	2009	900.0	581549	12818	60.0	yes	no	yes	no	yes	
25055.83c	54.4661	ENDF71x	ENDF/B-VII.1	2009	1200.0	579355	12544	60.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
25055.84c	54.4661	ENDF71x	ENDF/B-VII.1	2009	2500.0	572629	11703	60.0	yes	no	yes	no	yes	
25055.85c	54.4661	ENDF71x	ENDF/B-VII.1	2009	0.1	619747	17593	60.0	yes	no	yes	no	yes	
25055.86c	54.4661	ENDF71x	ENDF/B-VII.1	2009	250.0	590773	13971	60.0	yes	no	yes	no	yes	
25055.70c	54.4661	endf70b	ENDF/B-VII.0	2000	293.6	286225	12823	20	yes	no	yes	no	no	
25055.71c	54.4661	endf70b	ENDF/B-VII.0	2000	600	281954	12289	20	yes	no	yes	no	no	
25055.72c	54.4661	endf70b	ENDF/B-VII.0	2000	900	279154	11939	20	yes	no	yes	no	no	
25055.73c	54.4661	endf70b	ENDF/B-VII.0	2000	1200	277490	11731	20	yes	no	yes	no	no	
25055.74c	54.4661	endf70b	ENDF/B-VII.0	2000	2500	272265	11078	20	yes	no	yes	no	no	
25055.62c	54.4661	actia	ENDF/B-VI.8	2000	293.6	272554	11114	20	yes	no	yes	no	no	
25055.61c	54.4661	actib	ENDF/B-VI.8	2000	77	279378	11967	20	yes	no	yes	no	no	
25055.66c	54.4661	endf66a	ENDF/B-VI.5	1997	293.6	263887	11114	20	yes	no	yes	no	no	
25055.64c	54.4661	endf66d	ENDF/B-VI.5	1997	77	270711	11967	20	yes	no	yes	no	no	
25055.60c	54.4661	endf60	ENDF/B-VI.0	1988	293.6	184269	8207	20	yes	no	no	no	no	
25055.51c	54.4661	rmccs	ENDF/B-V.0	1977	293.6	25727	1578	20	yes	no	no	no	no	
25055.50c	54.4661	endf5u	ENDF/B-V.0	1977	293.6	105093	12525	20	yes	no	no	no	no	
25055.42c	54.4661	endl92	LLNL	<1992	300	10262	460	30	yes	no	no	no	no	
25055.710nc	54.4661	ENDF71x	ENDF/B-VII.1	2009	293.6	589420	13802	60.0	yes	no	yes	no	yes	
25055.711nc	54.4661	ENDF71x	ENDF/B-VII.1	2009	600.0	584515	13189	60.0	yes	no	yes	no	yes	
25055.712nc	54.4661	ENDF71x	ENDF/B-VII.1	2009	900.0	581549	12818	60.0	yes	no	yes	no	yes	
25055.713nc	54.4661	ENDF71x	ENDF/B-VII.1	2009	1200.0	579355	12544	60.0	yes	no	yes	no	yes	
25055.714nc	54.4661	ENDF71x	ENDF/B-VII.1	2009	2500.0	572629	11703	60.0	yes	no	yes	no	yes	
25055.715nc	54.4661	ENDF71x	ENDF/B-VII.1	2009	0.1	619747	17593	60.0	yes	no	yes	no	yes	
25055.716nc	54.4661	ENDF71x	ENDF/B-VII.1	2009	250.0	590773	13971	60.0	yes	no	yes	no	yes	

Z = 26, iron

Fe-0

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
26000.55c	55.365	rmccs	LANL/T	1984	293.6	178392	6899	20	yes	no	no	no	no	
26000.50c	55.365	endf5p	ENDF/B-V.0	1978	293.6	115447	10957	20	yes	no	no	no	no	
26000.21c	55.365	100xs	LANL/T:X	1989	300	149855	15598	100	yes	no	no	no	no	3
26000.42c	55.3672	endl92	LLNL	<1992	300	38653	3385	30	yes	no	no	no	no	
Fe-54														
26054.80c	53.476	ENDF71x	ENDF/B-VII.1	2004	293.6	333874	21487	150.0	yes	no	yes	no	no	
26054.81c	53.476	ENDF71x	ENDF/B-VII.1	2004	600.0	328066	20761	150.0	yes	no	yes	no	no	
26054.82c	53.476	ENDF71x	ENDF/B-VII.1	2004	900.0	323793	20227	150.0	yes	no	yes	no	no	
26054.83c	53.476	ENDF71x	ENDF/B-VII.1	2004	1200.0	320593	19827	150.0	yes	no	yes	no	no	
26054.84c	53.476	ENDF71x	ENDF/B-VII.1	2004	2500.0	312178	18775	150.0	yes	no	yes	no	no	
26054.85c	53.476	ENDF71x	ENDF/B-VII.1	2004	0.1	353963	23998	150.0	yes	no	yes	no	no	
26054.86c	53.476	ENDF71x	ENDF/B-VII.1	2004	250.0	335234	21657	150.0	yes	no	yes	no	no	
26054.70c	53.476	endf70b	ENDF/B-VII.0	2004	293.6	331467	21487	150	yes	no	yes	no	no	
26054.71c	53.476	endf70b	ENDF/B-VII.0	2004	600	325659	20761	150	yes	no	yes	no	no	
26054.72c	53.476	endf70b	ENDF/B-VII.0	2004	900	321386	20227	150	yes	no	yes	no	no	
26054.73c	53.476	endf70b	ENDF/B-VII.0	2004	1200	318186	19827	150	yes	no	yes	no	no	
26054.74c	53.476	endf70b	ENDF/B-VII.0	2004	2500	309770	18775	150	yes	no	yes	no	no	
26054.62c	53.476	actia	ENDF/B-VI.8	2000	293.6	311639	19262	150	yes	no	yes	no	no	
26054.61c	53.476	actib	ENDF/B-VI.8	2000	77	318575	20129	150	yes	no	yes	no	no	
26054.66c	53.476	endf66a	ENDF/B-VI.6	1996	293.6	310335	19262	150	yes	no	yes	no	no	
26054.64c	53.476	endf66d	ENDF/B-VI.6	1996	77	317271	20129	150	yes	no	yes	no	no	
26054.60c	53.476	endf60	ENDF/B-VI.1	1989	293.6	121631	10701	20	yes	no	no	no	no	
26054.24c	53.476	la150n	ENDF/B-VI.6	1996	293.6	311741	19323	150	yes	no	yes	no	no	
26054.710nc	53.476	ENDF71x	ENDF/B-VII.1	2004	293.6	333874	21487	150.0	yes	no	yes	no	no	
26054.711nc	53.476	ENDF71x	ENDF/B-VII.1	2004	600.0	328066	20761	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
26054.712nc	53.476	ENDF71x	ENDF/B-VII.1	2004	900.0	323793	20227	150.0	yes	no	yes	no	no	
26054.713nc	53.476	ENDF71x	ENDF/B-VII.1	2004	1200.0	320593	19827	150.0	yes	no	yes	no	no	
26054.714nc	53.476	ENDF71x	ENDF/B-VII.1	2004	2500.0	312178	18775	150.0	yes	no	yes	no	no	
26054.715nc	53.476	ENDF71x	ENDF/B-VII.1	2004	0.1	353963	23998	150.0	yes	no	yes	no	no	
26054.716nc	53.476	ENDF71x	ENDF/B-VII.1	2004	250.0	335234	21657	150.0	yes	no	yes	no	no	
Fe-56														
26056.80c	55.454	ENDF71x	ENDF/B-VII.1x	2004	293.6	506000	30280	150.0	yes	no	yes	no	no	
26056.81c	55.454	ENDF71x	ENDF/B-VII.1x	2004	600.0	497960	29275	150.0	yes	no	yes	no	no	
26056.82c	55.454	ENDF71x	ENDF/B-VII.1x	2004	900.0	493169	28676	150.0	yes	no	yes	no	no	
26056.83c	55.454	ENDF71x	ENDF/B-VII.1x	2004	1200.0	488737	28122	150.0	yes	no	yes	no	no	
26056.84c	55.454	ENDF71x	ENDF/B-VII.1x	2004	2500.0	477697	26742	150.0	yes	no	yes	no	no	
26056.85c	55.454	ENDF71x	ENDF/B-VII.1x	2004	0.1	537576	34227	150.0	yes	no	yes	no	no	
26056.86c	55.454	ENDF71x	ENDF/B-VII.1x	2004	250.0	507977	30527	150.0	yes	no	yes	no	no	
26056.70c	55.454	endf70b	ENDF/B-VII.0	2004	293.6	503649	30280	150	yes	no	yes	no	no	
26056.71c	55.454	endf70b	ENDF/B-VII.0	2004	600	495608	29275	150	yes	no	yes	no	no	
26056.72c	55.454	endf70b	ENDF/B-VII.0	2004	900	490817	28676	150	yes	no	yes	no	no	
26056.73c	55.454	endf70b	ENDF/B-VII.0	2004	1200	486385	28122	150	yes	no	yes	no	no	
26056.74c	55.454	endf70b	ENDF/B-VII.0	2004	2500	475346	26742	150	yes	no	yes	no	no	
26056.62c	55.454	actia	ENDF/B-VI.8	2000	293.6	466257	25606	150	yes	no	yes	no	no	
26056.61c	55.454	actib	ENDF/B-VI.8	2000	77	475976	26821	150	yes	no	yes	no	no	
26056.66c	55.454	endf66a	ENDF/B-VI.6	1996	293.6	458443	25606	150	yes	no	yes	no	no	
26056.64c	55.454	endf66d	ENDF/B-VI.6	1996	77	468162	26821	150	yes	no	yes	no	no	
26056.60c	55.454	endf60	ENDF/B-VI.1	1989	293.6	174517	11618	20	yes	no	no	no	no	
26056.24c	55.454	la150n	ENDF/B-VI.6	1996	293.6	461888	25792	150	yes	no	yes	no	no	
26056.710nc	55.454	ENDF71x	ENDF/B-VII.1x	2004	293.6	506000	30280	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
26056.711nc	55.454	ENDF71x	ENDF/B-VII.1x	2004	600.0	497960	29275	150.0	yes	no	yes	no	no	
26056.712nc	55.454	ENDF71x	ENDF/B-VII.1x	2004	900.0	493169	28676	150.0	yes	no	yes	no	no	
26056.713nc	55.454	ENDF71x	ENDF/B-VII.1x	2004	1200.0	488737	28122	150.0	yes	no	yes	no	no	
26056.714nc	55.454	ENDF71x	ENDF/B-VII.1x	2004	2500.0	477697	26742	150.0	yes	no	yes	no	no	
26056.715nc	55.454	ENDF71x	ENDF/B-VII.1x	2004	0.1	537576	34227	150.0	yes	no	yes	no	no	
26056.716nc	55.454	ENDF71x	ENDF/B-VII.1x	2004	250.0	507977	30527	150.0	yes	no	yes	no	no	
Fe-57														
26057.80c	56.446	ENDF71x	ENDF/B-VII.1	2004	293.6	335918	15925	150.0	yes	no	yes	no	no	
26057.81c	56.446	ENDF71x	ENDF/B-VII.1	2004	600.0	335038	15815	150.0	yes	no	yes	no	no	
26057.82c	56.446	ENDF71x	ENDF/B-VII.1	2004	900.0	334896	15797	150.0	yes	no	yes	no	no	
26057.83c	56.446	ENDF71x	ENDF/B-VII.1	2004	1200.0	334672	15769	150.0	yes	no	yes	no	no	
26057.84c	56.446	ENDF71x	ENDF/B-VII.1	2004	2500.0	334366	15731	150.0	yes	no	yes	no	no	
26057.85c	56.446	ENDF71x	ENDF/B-VII.1	2004	0.1	338997	16310	150.0	yes	no	yes	no	no	
26057.86c	56.446	ENDF71x	ENDF/B-VII.1	2004	250.0	336085	15946	150.0	yes	no	yes	no	no	
26057.70c	56.446	endf70b	ENDF/B-VII.0	2004	293.6	333360	15925	150	yes	no	yes	no	no	
26057.71c	56.446	endf70b	ENDF/B-VII.0	2004	600	332480	15815	150	yes	no	yes	no	no	
26057.72c	56.446	endf70b	ENDF/B-VII.0	2004	900	332338	15797	150	yes	no	yes	no	no	
26057.73c	56.446	endf70b	ENDF/B-VII.0	2004	1200	332114	15769	150	yes	no	yes	no	no	
26057.74c	56.446	endf70b	ENDF/B-VII.0	2004	2500	331809	15731	150	yes	no	yes	no	no	
26057.62c	56.446	actia	ENDF/B-VI.8	2000	293.6	318268	14266	150	yes	no	yes	no	no	
26057.61c	56.446	actib	ENDF/B-VI.8	2000	77	319262	14390	150	yes	no	yes	no	no	
26057.66c	56.446	endf66a	ENDF/B-VI.6	1996	293.6	315197	14266	150	yes	no	yes	no	no	
26057.64c	56.446	endf66d	ENDF/B-VI.6	1996	77	316191	14390	150	yes	no	yes	no	no	
26057.60c	56.446	endf60	ENDF/B-VI.1	1989	293.6	133995	7606	20	yes	no	no	no	no	
26057.24c	56.446	la150n	ENDF/B-VI.6	1996	293.6	315349	14285	150	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
26057.710nc	56.446	ENDF71x	ENDF/B-VII.1	2004	293.6	335918	15925	150.0	yes	no	yes	no	no	
26057.711nc	56.446	ENDF71x	ENDF/B-VII.1	2004	600.0	335038	15815	150.0	yes	no	yes	no	no	
26057.712nc	56.446	ENDF71x	ENDF/B-VII.1	2004	900.0	334896	15797	150.0	yes	no	yes	no	no	
26057.713nc	56.446	ENDF71x	ENDF/B-VII.1	2004	1200.0	334672	15769	150.0	yes	no	yes	no	no	
26057.714nc	56.446	ENDF71x	ENDF/B-VII.1	2004	2500.0	334366	15731	150.0	yes	no	yes	no	no	
26057.715nc	56.446	ENDF71x	ENDF/B-VII.1	2004	0.1	338997	16310	150.0	yes	no	yes	no	no	
26057.716nc	56.446	ENDF71x	ENDF/B-VII.1	2004	250.0	336085	15946	150.0	yes	no	yes	no	no	
Fe-58														
26058.80c	57.436	ENDF71x	ENDF/B-VII.1	2000	293.6	173141	12025	20.0	yes	no	yes	no	no	
26058.81c	57.436	ENDF71x	ENDF/B-VII.1	2000	600.0	170973	11754	20.0	yes	no	yes	no	no	
26058.82c	57.436	ENDF71x	ENDF/B-VII.1	2000	900.0	169213	11534	20.0	yes	no	yes	no	no	
26058.83c	57.436	ENDF71x	ENDF/B-VII.1	2000	1200.0	168030	11386	20.0	yes	no	yes	no	no	
26058.84c	57.436	ENDF71x	ENDF/B-VII.1	2000	2500.0	164717	10972	20.0	yes	no	yes	no	no	
26058.85c	57.436	ENDF71x	ENDF/B-VII.1	2000	0.1	182581	13205	20.0	yes	no	yes	no	no	
26058.86c	57.436	ENDF71x	ENDF/B-VII.1	2000	250.0	173685	12093	20.0	yes	no	yes	no	no	
26058.70c	57.436	endf70b	ENDF/B-VII.0	2000	293.6	173142	12025	20	yes	no	yes	no	no	
26058.71c	57.436	endf70b	ENDF/B-VII.0	2000	600	170973	11754	20	yes	no	yes	no	no	
26058.72c	57.436	endf70b	ENDF/B-VII.0	2000	900	169214	11534	20	yes	no	yes	no	no	
26058.73c	57.436	endf70b	ENDF/B-VII.0	2000	1200	168029	11386	20	yes	no	yes	no	no	
26058.74c	57.436	endf70b	ENDF/B-VII.0	2000	2500	164718	10972	20	yes	no	yes	no	no	
26058.62c	57.436	actia	ENDF/B-VI.8	2000	293.6	165829	11111	20	yes	no	yes	no	no	
26058.61c	57.436	actib	ENDF/B-VI.8	2000	77	169389	11556	20	yes	no	yes	no	no	
26058.66c	57.436	endf66a	ENDF/B-VI.5	1989	293.6	162076	11111	20	yes	no	yes	no	no	
26058.64c	57.436	endf66d	ENDF/B-VI.5	1989	77	165636	11556	20	yes	no	yes	no	no	
26058.60c	57.436	endf60	ENDF/B-VI.1	1989	293.6	93450	6788	20	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
26058.710nc	57.436	ENDF71x	ENDF/B-VII.1	2000	293.6	173141	12025	20.0	yes	no	yes	no	no	
26058.711nc	57.436	ENDF71x	ENDF/B-VII.1	2000	600.0	170973	11754	20.0	yes	no	yes	no	no	
26058.712nc	57.436	ENDF71x	ENDF/B-VII.1	2000	900.0	169213	11534	20.0	yes	no	yes	no	no	
26058.713nc	57.436	ENDF71x	ENDF/B-VII.1	2000	1200.0	168030	11386	20.0	yes	no	yes	no	no	
26058.714nc	57.436	ENDF71x	ENDF/B-VII.1	2000	2500.0	164717	10972	20.0	yes	no	yes	no	no	
26058.715nc	57.436	ENDF71x	ENDF/B-VII.1	2000	0.1	182581	13205	20.0	yes	no	yes	no	no	
26058.716nc	57.436	ENDF71x	ENDF/B-VII.1	2000	250.0	173685	12093	20.0	yes	no	yes	no	no	
				$Z = 27$, cobalt										
Co-58														
27058.80c	57.4381	ENDF71x	ENDF/B-VII.1	2011	293.6	245676	3555	20.0	yes	no	yes	no	no	
27058.81c	57.4381	ENDF71x	ENDF/B-VII.1	2011	600.0	244906	3520	20.0	yes	no	yes	no	no	
27058.82c	57.4381	ENDF71x	ENDF/B-VII.1	2011	900.0	244753	3513	20.0	yes	no	yes	no	no	
27058.83c	57.4381	ENDF71x	ENDF/B-VII.1	2011	1200.0	244710	3511	20.0	yes	no	yes	no	no	
27058.84c	57.4381	ENDF71x	ENDF/B-VII.1	2011	2500.0	243588	3460	20.0	yes	no	yes	no	no	
27058.85c	57.4381	ENDF71x	ENDF/B-VII.1	2011	0.1	248251	3672	20.0	yes	no	yes	no	no	
27058.86c	57.4381	ENDF71x	ENDF/B-VII.1	2011	250.0	246029	3571	20.0	yes	no	yes	no	no	
27058.70c	57.4381	endf70b	ENDF/B-VII.0	1992	293.6	20895	1303	20	no	no	no	no	no	
27058.71c	57.4381	endf70b	ENDF/B-VII.0	1992	600	19780	1179	20	no	no	no	no	no	
27058.72c	57.4381	endf70b	ENDF/B-VII.0	1992	900	19428	1140	20	no	no	no	no	no	
27058.73c	57.4381	endf70b	ENDF/B-VII.0	1992	1200	19221	1117	20	no	no	no	no	no	
27058.74c	57.4381	endf70b	ENDF/B-VII.0	1992	2500	18861	1077	20	no	no	no	no	no	
27058.710nc	57.4381	ENDF71x	ENDF/B-VII.1	2011	293.6	245676	3555	20.0	yes	no	yes	no	no	
27058.711nc	57.4381	ENDF71x	ENDF/B-VII.1	2011	600.0	244906	3520	20.0	yes	no	yes	no	no	
27058.712nc	57.4381	ENDF71x	ENDF/B-VII.1	2011	900.0	244753	3513	20.0	yes	no	yes	no	no	
27058.713nc	57.4381	ENDF71x	ENDF/B-VII.1	2011	1200.0	244710	3511	20.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
27058.714nc	57.4381	ENDF71x	ENDF/B-VII.1	2011	2500.0	243588	3460	20.0	yes	no	yes	no	no	
27058.715nc	57.4381	ENDF71x	ENDF/B-VII.1	2011	0.1	248251	3672	20.0	yes	no	yes	no	no	
27058.716nc	57.4381	ENDF71x	ENDF/B-VII.1	2011	250.0	246029	3571	20.0	yes	no	yes	no	no	
Co-59														
27059.80c	58.4269	ENDF71x	ENDF/B-VII.1	1992	293.6	281419	21569	20.0	yes	no	no	no	no	
27059.81c	58.4269	ENDF71x	ENDF/B-VII.1	1992	600.0	276276	20926	20.0	yes	no	no	no	no	
27059.82c	58.4269	ENDF71x	ENDF/B-VII.1	1992	900.0	273090	20528	20.0	yes	no	no	no	no	
27059.83c	58.4269	ENDF71x	ENDF/B-VII.1	1992	1200.0	271523	20332	20.0	yes	no	no	no	no	
27059.84c	58.4269	ENDF71x	ENDF/B-VII.1	1992	2500.0	266451	19698	20.0	yes	no	no	no	no	
27059.85c	58.4269	ENDF71x	ENDF/B-VII.1	1992	0.1	307091	24778	20.0	yes	no	no	no	no	
27059.86c	58.4269	ENDF71x	ENDF/B-VII.1	1992	250.0	282292	21678	20.0	yes	no	no	no	no	
27059.70c	58.4269	endf70b	ENDF/B-VII.0	1992	293.6	281420	21569	20	yes	no	no	no	no	
27059.71c	58.4269	endf70b	ENDF/B-VII.0	1992	600	276275	20926	20	yes	no	no	no	no	
27059.72c	58.4269	endf70b	ENDF/B-VII.0	1992	900	273090	20528	20	yes	no	no	no	no	
27059.73c	58.4269	endf70b	ENDF/B-VII.0	1992	1200	271523	20332	20	yes	no	no	no	no	
27059.74c	58.4269	endf70b	ENDF/B-VII.0	1992	2500	266450	19698	20	yes	no	no	no	no	
27059.66c	58.4269	endf66a	ENDF/B-VI.2	1992	293.6	266952	19759	20	yes	no	no	no	no	
27059.60c	58.4269	endf60	ENDF/B-VI.2	1992	293.6	186618	11838	20	yes	no	no	no	no	
27059.51c	58.4269	rmccs	ENDF/B-V.0	1977	293.6	28355	1928	20	yes	no	no	no	no	
27059.50c	58.4269	endf5u	ENDF/B-V.0	1977	293.6	117075	14502	20	yes	no	no	no	no	
27059.42c	58.4269	endl92	LLNL	<1992	300	119231	13098	30	yes	no	no	no	no	
27059.710nc	58.4269	ENDF71x	ENDF/B-VII.1	1992	293.6	281419	21569	20.0	yes	no	no	no	no	
27059.711nc	58.4269	ENDF71x	ENDF/B-VII.1	1992	600.0	276276	20926	20.0	yes	no	no	no	no	
27059.712nc	58.4269	ENDF71x	ENDF/B-VII.1	1992	900.0	273090	20528	20.0	yes	no	no	no	no	
27059.713nc	58.4269	ENDF71x	ENDF/B-VII.1	1992	1200.0	271523	20332	20.0	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
27059.714nc	58.4269	ENDF71x	ENDF/B-VII.1	1992	2500.0	266451	19698	20.0	yes	no	no	no	no	
27059.715nc	58.4269	ENDF71x	ENDF/B-VII.1	1992	0.1	307091	24778	20.0	yes	no	no	no	no	
27059.716nc	58.4269	ENDF71x	ENDF/B-VII.1	1992	250.0	282292	21678	20.0	yes	no	no	no	no	
Co-458														
27458.80c	57.4381	ENDF71x	ENDF/B-VII.1	1992	293.6	16806	798	20.0	no	no	no	no	no	
27458.81c	57.4381	ENDF71x	ENDF/B-VII.1	1992	600.0	16738	791	20.0	no	no	no	no	no	
27458.82c	57.4381	ENDF71x	ENDF/B-VII.1	1992	900.0	16797	797	20.0	no	no	no	no	no	
27458.83c	57.4381	ENDF71x	ENDF/B-VII.1	1992	1200.0	16716	789	20.0	no	no	no	no	no	
27458.84c	57.4381	ENDF71x	ENDF/B-VII.1	1992	2500.0	16746	792	20.0	no	no	no	no	no	
27458.85c	57.4381	ENDF71x	ENDF/B-VII.1	1992	0.1	18847	1002	20.0	no	no	no	no	no	
27458.86c	57.4381	ENDF71x	ENDF/B-VII.1	1992	250.0	16867	804	20.0	no	no	no	no	no	
27458.70c	57.4381	endf70b	ENDF/B-VII.0	1992	293.6	18223	926	20	no	no	no	no	no	
27458.71c	57.4381	endf70b	ENDF/B-VII.0	1992	600	18154	919	20	no	no	no	no	no	
27458.72c	57.4381	endf70b	ENDF/B-VII.0	1992	900	18213	925	20	no	no	no	no	no	
27458.73c	57.4381	endf70b	ENDF/B-VII.0	1992	1200	18133	917	20	no	no	no	no	no	
27458.74c	57.4381	endf70b	ENDF/B-VII.0	1992	2500	18163	920	20	no	no	no	no	no	
Z = 28, nickel														
Ni-0														
28000.50c	58.1826	rmccs	ENDF/B-V.0	1977	293.6	139913	8927	20	yes	no	no	no	no	
28000.42c	58.1957	endl92	LLNL	<1992	300	44833	3116	30	yes	no	no	no	no	
Ni-58														
28058.80c	57.438	ENDF71x	ENDF/B-VII.1	2009	293.6	724038	47876	150.0	yes	no	yes	no	no	
28058.81c	57.438	ENDF71x	ENDF/B-VII.1	2009	600.0	712982	46494	150.0	yes	no	yes	no	no	
28058.82c	57.438	ENDF71x	ENDF/B-VII.1	2009	900.0	706487	45682	150.0	yes	no	yes	no	no	
28058.83c	57.438	ENDF71x	ENDF/B-VII.1	2009	1200.0	700877	44981	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
28058.84c	57.438	ENDF71x	ENDF/B-VII.1	2009	2500.0	688574	43443	150.0	yes	no	yes	no	no	
28058.85c	57.438	ENDF71x	ENDF/B-VII.1	2009	0.1	775854	54353	150.0	yes	no	yes	no	no	
28058.86c	57.438	ENDF71x	ENDF/B-VII.1	2009	250.0	726366	48167	150.0	yes	no	yes	no	no	
28058.70c	57.438	endf70b	ENDF/B-VII.0	2004	293.6	712488	47427	150	yes	no	yes	no	no	
28058.71c	57.438	endf70b	ENDF/B-VII.0	2004	600	702384	46164	150	yes	no	yes	no	no	
28058.72c	57.438	endf70b	ENDF/B-VII.0	2004	900	695673	45325	150	yes	no	yes	no	no	
28058.73c	57.438	endf70b	ENDF/B-VII.0	2004	1200	689863	44599	150	yes	no	yes	no	no	
28058.74c	57.438	endf70b	ENDF/B-VII.0	2004	2500	677352	43035	150	yes	no	yes	no	no	
28058.62c	57.438	actia	ENDF/B-VI.8	2000	293.6	617974	39020	150	yes	no	yes	no	no	
28058.61c	57.438	actib	ENDF/B-VI.8	2000	77	630981	40646	150	yes	no	yes	no	no	
28058.66c	57.438	endf66a	ENDF/B-VI.6	1997	293.6	610483	39026	150	yes	no	yes	no	no	
28058.64c	57.438	endf66d	ENDF/B-VI.6	1997	77	623330	40632	150	yes	no	yes	no	no	
28058.60c	57.438	endf60	ENDF/B-VI.1	1989	293.6	172069	16445	20	yes	no	no	no	no	
28058.42c	57.4376	endl92	LLNL	<1992	300	38930	4914	30	yes	no	no	no	no	
28058.24c	57.438	la150n	ENDF/B-VI.6	1997	293.6	613673	39258	150	yes	no	yes	no	no	
28058.710nc	57.438	ENDF71x	ENDF/B-VII.1	2009	293.6	724038	47876	150.0	yes	no	yes	no	no	
28058.711nc	57.438	ENDF71x	ENDF/B-VII.1	2009	600.0	712982	46494	150.0	yes	no	yes	no	no	
28058.712nc	57.438	ENDF71x	ENDF/B-VII.1	2009	900.0	706487	45682	150.0	yes	no	yes	no	no	
28058.713nc	57.438	ENDF71x	ENDF/B-VII.1	2009	1200.0	700877	44981	150.0	yes	no	yes	no	no	
28058.714nc	57.438	ENDF71x	ENDF/B-VII.1	2009	2500.0	688574	43443	150.0	yes	no	yes	no	no	
28058.715nc	57.438	ENDF71x	ENDF/B-VII.1	2009	0.1	775854	54353	150.0	yes	no	yes	no	no	
28058.716nc	57.438	ENDF71x	ENDF/B-VII.1	2009	250.0	726366	48167	150.0	yes	no	yes	no	no	
Ni-59														
28059.80c	58.4281	ENDF71x	ENDF/B-VII.1	1992	293.6	65362	2335	20.0	yes	no	no	no	no	
28059.81c	58.4281	ENDF71x	ENDF/B-VII.1	1992	600.0	65245	2326	20.0	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
28059.82c	58.4281	ENDF71x	ENDF/B-VII.1	1992	900.0	65180	2321	20.0	yes	no	no	no	no	
28059.83c	58.4281	ENDF71x	ENDF/B-VII.1	1992	1200.0	65062	2312	20.0	yes	no	no	no	no	
28059.84c	58.4281	ENDF71x	ENDF/B-VII.1	1992	2500.0	64621	2278	20.0	yes	no	no	no	no	
28059.85c	58.4281	ENDF71x	ENDF/B-VII.1	1992	0.1	64777	2290	20.0	yes	no	no	no	no	
28059.86c	58.4281	ENDF71x	ENDF/B-VII.1	1992	250.0	65376	2336	20.0	yes	no	no	no	no	
28059.70c	58.4281	endf70b	ENDF/B-VII.0	1992	293.6	66623	2432	20	yes	no	no	no	no	
28059.71c	58.4281	endf70b	ENDF/B-VII.0	1992	600	66505	2423	20	yes	no	no	no	no	
28059.72c	58.4281	endf70b	ENDF/B-VII.0	1992	900	66441	2418	20	yes	no	no	no	no	
28059.73c	58.4281	endf70b	ENDF/B-VII.0	1992	1200	66324	2409	20	yes	no	no	no	no	
28059.74c	58.4281	endf70b	ENDF/B-VII.0	1992	2500	65883	2375	20	yes	no	no	no	no	
28059.710nc	58.4281	ENDF71x	ENDF/B-VII.1	1992	293.6	65362	2335	20.0	yes	no	no	no	no	
28059.711nc	58.4281	ENDF71x	ENDF/B-VII.1	1992	600.0	65245	2326	20.0	yes	no	no	no	no	
28059.712nc	58.4281	ENDF71x	ENDF/B-VII.1	1992	900.0	65180	2321	20.0	yes	no	no	no	no	
28059.713nc	58.4281	ENDF71x	ENDF/B-VII.1	1992	1200.0	65062	2312	20.0	yes	no	no	no	no	
28059.714nc	58.4281	ENDF71x	ENDF/B-VII.1	1992	2500.0	64621	2278	20.0	yes	no	no	no	no	
28059.715nc	58.4281	ENDF71x	ENDF/B-VII.1	1992	0.1	64777	2290	20.0	yes	no	no	no	no	
28059.716nc	58.4281	ENDF71x	ENDF/B-VII.1	1992	250.0	65376	2336	20.0	yes	no	no	no	no	
Ni-60														
28060.80c	59.416	ENDF71x	ENDF/B-VII.1	2004	293.6	628382	39302	150.0	yes	no	yes	no	no	
28060.81c	59.416	ENDF71x	ENDF/B-VII.1	2004	600.0	609300	37711	150.0	yes	no	yes	no	no	
28060.82c	59.416	ENDF71x	ENDF/B-VII.1	2004	900.0	599706	36834	150.0	yes	no	yes	no	no	
28060.83c	59.416	ENDF71x	ENDF/B-VII.1	2004	1200.0	591333	36136	150.0	yes	no	yes	no	no	
28060.84c	59.416	ENDF71x	ENDF/B-VII.1	2004	2500.0	564620	33910	150.0	yes	no	yes	no	no	
28060.85c	59.416	ENDF71x	ENDF/B-VII.1	2004	0.1	717919	46764	150.0	yes	no	yes	no	no	
28060.86c	59.416	ENDF71x	ENDF/B-VII.1	2004	250.0	632403	39637	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
28060.70c	59.416	endf70b	ENDF/B-VII.0	2004	293.6	465562	25883	150	yes	no	yes	no	no	
28060.71c	59.416	endf70b	ENDF/B-VII.0	2004	600	455276	25025	150	yes	no	yes	no	no	
28060.72c	59.416	endf70b	ENDF/B-VII.0	2004	900	447914	24334	150	yes	no	yes	no	no	
28060.73c	59.416	endf70b	ENDF/B-VII.0	2004	1200	442240	23861	150	yes	no	yes	no	no	
28060.74c	59.416	endf70b	ENDF/B-VII.0	2004	2500	426520	22551	150	yes	no	yes	no	no	
28060.62c	59.416	actia	ENDF/B-VI.8	2000	293.6	407398	21131	150	yes	no	yes	no	no	
28060.61c	59.416	actib	ENDF/B-VI.8	2000	77	424742	22574	150	yes	no	yes	no	no	
28060.66c	59.416	endf66a	ENDF/B-VI.6	1997	293.6	403014	21133	150	yes	no	yes	no	no	
28060.64c	59.416	endf66d	ENDF/B-VI.6	1997	77	420274	22569	150	yes	no	yes	no	no	
28060.60c	59.416	endf60	ENDF/B-VI.1	1991	293.6	110885	10055	20	yes	no	no	no	no	
28060.24c	59.416	la150n	ENDF/B-VI.6	1997	293.6	408148	21448	150	yes	no	yes	no	no	
28060.710nc	59.416	ENDF71x	ENDF/B-VII.1	2004	293.6	628382	39302	150.0	yes	no	yes	no	no	
28060.711nc	59.416	ENDF71x	ENDF/B-VII.1	2004	600.0	609300	37711	150.0	yes	no	yes	no	no	
28060.712nc	59.416	ENDF71x	ENDF/B-VII.1	2004	900.0	599706	36834	150.0	yes	no	yes	no	no	
28060.713nc	59.416	ENDF71x	ENDF/B-VII.1	2004	1200.0	591333	36136	150.0	yes	no	yes	no	no	
28060.714nc	59.416	ENDF71x	ENDF/B-VII.1	2004	2500.0	564620	33910	150.0	yes	no	yes	no	no	
28060.715nc	59.416	ENDF71x	ENDF/B-VII.1	2004	0.1	717919	46764	150.0	yes	no	yes	no	no	
28060.716nc	59.416	ENDF71x	ENDF/B-VII.1	2004	250.0	632403	39637	150.0	yes	no	yes	no	no	
Ni-61														
28061.80c	60.408	ENDF71x	ENDF/B-VII.1x	2011	293.6	284143	11786	150.0	yes	no	yes	no	no	
28061.81c	60.408	ENDF71x	ENDF/B-VII.1x	2011	600.0	282511	11582	150.0	yes	no	yes	no	no	
28061.82c	60.408	ENDF71x	ENDF/B-VII.1x	2011	900.0	281407	11444	150.0	yes	no	yes	no	no	
28061.83c	60.408	ENDF71x	ENDF/B-VII.1x	2011	1200.0	280472	11327	150.0	yes	no	yes	no	no	
28061.84c	60.408	ENDF71x	ENDF/B-VII.1x	2011	2500.0	278583	11091	150.0	yes	no	yes	no	no	
28061.85c	60.408	ENDF71x	ENDF/B-VII.1x	2011	0.1	290727	12609	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
28061.86c	60.408	ENDF71x	ENDF/B-VII.1x	2011	250.0	284424	11821	150.0	yes	no	yes	no	no	
28061.70c	60.408	endf70b	ENDF/B-VII.0	2004	293.6	250113	7745	150	yes	no	yes	no	no	
28061.71c	60.408	endf70b	ENDF/B-VII.0	2004	600	249656	7688	150	yes	no	yes	no	no	
28061.72c	60.408	endf70b	ENDF/B-VII.0	2004	900	249432	7660	150	yes	no	yes	no	no	
28061.73c	60.408	endf70b	ENDF/B-VII.0	2004	1200	249048	7612	150	yes	no	yes	no	no	
28061.74c	60.408	endf70b	ENDF/B-VII.0	2004	2500	248345	7524	150	yes	no	yes	no	no	
28061.62c	60.408	actia	ENDF/B-VI.8	2000	293.6	247188	7379	150	yes	no	yes	no	no	
28061.61c	60.408	actib	ENDF/B-VI.8	2000	77	247660	7438	150	yes	no	yes	no	no	
28061.66c	60.408	endf66a	ENDF/B-VI.6	1997	293.6	244743	7381	150	yes	no	yes	no	no	
28061.64c	60.408	endf66d	ENDF/B-VI.6	1997	77	245215	7440	150	yes	no	yes	no	no	
28061.60c	60.408	endf60	ENDF/B-VI.1	1989	293.6	93801	5882	20	yes	no	no	no	no	
28061.24c	60.408	la150n	ENDF/B-VI.6	1997	293.6	244768	7384	150	yes	no	yes	no	no	
28061.710nc	60.408	ENDF71x	ENDF/B-VII.1x	2011	293.6	284143	11786	150.0	yes	no	yes	no	no	
28061.711nc	60.408	ENDF71x	ENDF/B-VII.1x	2011	600.0	282511	11582	150.0	yes	no	yes	no	no	
28061.712nc	60.408	ENDF71x	ENDF/B-VII.1x	2011	900.0	281407	11444	150.0	yes	no	yes	no	no	
28061.713nc	60.408	ENDF71x	ENDF/B-VII.1x	2011	1200.0	280472	11327	150.0	yes	no	yes	no	no	
28061.714nc	60.408	ENDF71x	ENDF/B-VII.1x	2011	2500.0	278583	11091	150.0	yes	no	yes	no	no	
28061.715nc	60.408	ENDF71x	ENDF/B-VII.1x	2011	0.1	290727	12609	150.0	yes	no	yes	no	no	
28061.716nc	60.408	ENDF71x	ENDF/B-VII.1x	2011	250.0	284424	11821	150.0	yes	no	yes	no	no	
Ni-62														
28062.80c	61.396	ENDF71x	ENDF/B-VII.1	2009	293.6	254417	11840	150.0	yes	no	yes	no	yes	
28062.81c	61.396	ENDF71x	ENDF/B-VII.1	2009	600.0	253497	11725	150.0	yes	no	yes	no	yes	
28062.82c	61.396	ENDF71x	ENDF/B-VII.1	2009	900.0	252521	11603	150.0	yes	no	yes	no	yes	
28062.83c	61.396	ENDF71x	ENDF/B-VII.1	2009	1200.0	252194	11562	150.0	yes	no	yes	no	yes	
28062.84c	61.396	ENDF71x	ENDF/B-VII.1	2009	2500.0	250457	11345	150.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
28062.85c	61.396	ENDF71x	ENDF/B-VII.1	2009	0.1	261889	12774	150.0	yes	no	yes	no	yes	
28062.86c	61.396	ENDF71x	ENDF/B-VII.1	2009	250.0	254777	11885	150.0	yes	no	yes	no	yes	
28062.70c	61.396	endf70b	ENDF/B-VII.0	2004	293.6	241035	9800	150	yes	no	yes	no	no	
28062.71c	61.396	endf70b	ENDF/B-VII.0	2004	600	240829	9774	150	yes	no	yes	no	no	
28062.72c	61.396	endf70b	ENDF/B-VII.0	2004	900	240588	9744	150	yes	no	yes	no	no	
28062.73c	61.396	endf70b	ENDF/B-VII.0	2004	1200	240363	9716	150	yes	no	yes	no	no	
28062.74c	61.396	endf70b	ENDF/B-VII.0	2004	2500	239899	9658	150	yes	no	yes	no	no	
28062.62c	61.396	actia	ENDF/B-VI.8	2000	293.6	234511	9168	150	yes	no	yes	no	no	
28062.61c	61.396	actib	ENDF/B-VI.8	2000	77	234983	9227	150	yes	no	yes	no	no	
28062.66c	61.396	endf66a	ENDF/B-VI.6	1997	293.6	231705	9174	150	yes	no	yes	no	no	
28062.64c	61.396	endf66d	ENDF/B-VI.6	1997	77	232193	9235	150	yes	no	yes	no	no	
28062.60c	61.396	endf60	ENDF/B-VI.1	1989	293.6	82085	7230	20	yes	no	no	no	no	
28062.24c	61.396	la150n	ENDF/B-VI.6	1997	293.6	232065	9219	150	yes	no	yes	no	no	
28062.710nc	61.396	ENDF71x	ENDF/B-VII.1	2009	293.6	254417	11840	150.0	yes	no	yes	no	yes	
28062.711nc	61.396	ENDF71x	ENDF/B-VII.1	2009	600.0	253497	11725	150.0	yes	no	yes	no	yes	
28062.712nc	61.396	ENDF71x	ENDF/B-VII.1	2009	900.0	252521	11603	150.0	yes	no	yes	no	yes	
28062.713nc	61.396	ENDF71x	ENDF/B-VII.1	2009	1200.0	252194	11562	150.0	yes	no	yes	no	yes	
28062.714nc	61.396	ENDF71x	ENDF/B-VII.1	2009	2500.0	250457	11345	150.0	yes	no	yes	no	yes	
28062.715nc	61.396	ENDF71x	ENDF/B-VII.1	2009	0.1	261889	12774	150.0	yes	no	yes	no	yes	
28062.716nc	61.396	ENDF71x	ENDF/B-VII.1	2009	250.0	254777	11885	150.0	yes	no	yes	no	yes	
Ni-64														
28064.80c	63.379	ENDF71x	ENDF/B-VII.1	2011	293.6	220999	10542	150.0	yes	no	yes	no	no	
28064.81c	63.379	ENDF71x	ENDF/B-VII.1	2011	600.0	220438	10472	150.0	yes	no	yes	no	no	
28064.82c	63.379	ENDF71x	ENDF/B-VII.1	2011	900.0	220231	10446	150.0	yes	no	yes	no	no	
28064.83c	63.379	ENDF71x	ENDF/B-VII.1	2011	1200.0	219974	10414	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
28064.84c	63.379	ENDF71x	ENDF/B-VII.1	2011	2500.0	219143	10310	150.0	yes	no	yes	no	no	
28064.85c	63.379	ENDF71x	ENDF/B-VII.1	2011	0.1	222199	10692	150.0	yes	no	yes	no	no	
28064.86c	63.379	ENDF71x	ENDF/B-VII.1	2011	250.0	221118	10557	150.0	yes	no	yes	no	no	
28064.70c	63.379	endf70b	ENDF/B-VII.0	2004	293.6	200228	8134	150	yes	no	yes	no	no	
28064.71c	63.379	endf70b	ENDF/B-VII.0	2004	600	199820	8083	150	yes	no	yes	no	no	
28064.72c	63.379	endf70b	ENDF/B-VII.0	2004	900	199676	8065	150	yes	no	yes	no	no	
28064.73c	63.379	endf70b	ENDF/B-VII.0	2004	1200	199444	8036	150	yes	no	yes	no	no	
28064.74c	63.379	endf70b	ENDF/B-VII.0	2004	2500	198973	7977	150	yes	no	yes	no	no	
28064.62c	63.379	actia	ENDF/B-VI.8	2000	293.6	198313	7894	150	yes	no	yes	no	no	
28064.61c	63.379	actib	ENDF/B-VI.8	2000	77	199097	7992	150	yes	no	yes	no	no	
28064.66c	63.379	endf66a	ENDF/B-VI.6	1997	293.6	197296	7895	150	yes	no	yes	no	no	
28064.64c	63.379	endf66d	ENDF/B-VI.6	1997	77	198112	7997	150	yes	no	yes	no	no	
28064.60c	63.379	endf60	ENDF/B-VI.1	1989	293.6	66656	6144	20	yes	no	no	no	no	
28064.24c	63.379	la150n	ENDF/B-VI.6	1997	293.6	197799	7958	150	yes	no	yes	no	no	
28064.710nc	63.379	ENDF71x	ENDF/B-VII.1	2011	293.6	220999	10542	150.0	yes	no	yes	no	no	
28064.711nc	63.379	ENDF71x	ENDF/B-VII.1	2011	600.0	220438	10472	150.0	yes	no	yes	no	no	
28064.712nc	63.379	ENDF71x	ENDF/B-VII.1	2011	900.0	220231	10446	150.0	yes	no	yes	no	no	
28064.713nc	63.379	ENDF71x	ENDF/B-VII.1	2011	1200.0	219974	10414	150.0	yes	no	yes	no	no	
28064.714nc	63.379	ENDF71x	ENDF/B-VII.1	2011	2500.0	219143	10310	150.0	yes	no	yes	no	no	
28064.715nc	63.379	ENDF71x	ENDF/B-VII.1	2011	0.1	222199	10692	150.0	yes	no	yes	no	no	
28064.716nc	63.379	ENDF71x	ENDF/B-VII.1	2011	250.0	221118	10557	150.0	yes	no	yes	no	no	
Z = 29, copper														
Cu-0														
29000.50c	63.546	rmccs	ENDF/B-V.0	1978	293.6	51850	3435	20	yes	no	no	no	no	
Cu-63														

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
29063.80c	62.389	ENDF71x	ENDF/B-VII.1	2004	293.6	357743	25630	150.0	yes	no	yes	no	no	
29063.81c	62.389	ENDF71x	ENDF/B-VII.1	2004	600.0	348928	24528	150.0	yes	no	yes	no	no	
29063.82c	62.389	ENDF71x	ENDF/B-VII.1	2004	900.0	342942	23780	150.0	yes	no	yes	no	no	
29063.83c	62.389	ENDF71x	ENDF/B-VII.1	2004	1200.0	338655	23244	150.0	yes	no	yes	no	no	
29063.84c	62.389	ENDF71x	ENDF/B-VII.1	2004	2500.0	327903	21900	150.0	yes	no	yes	no	no	
29063.85c	62.389	ENDF71x	ENDF/B-VII.1	2004	0.1	402737	31254	150.0	yes	no	yes	no	no	
29063.86c	62.389	ENDF71x	ENDF/B-VII.1	2004	250.0	360001	25912	150.0	yes	no	yes	no	no	
29063.70c	62.389	endf70b	ENDF/B-VII.0	2004	293.6	357744	25630	150	yes	no	yes	no	no	
29063.71c	62.389	endf70b	ENDF/B-VII.0	2004	600	348928	24528	150	yes	no	yes	no	no	
29063.72c	62.389	endf70b	ENDF/B-VII.0	2004	900	342942	23780	150	yes	no	yes	no	no	
29063.73c	62.389	endf70b	ENDF/B-VII.0	2004	1200	338655	23244	150	yes	no	yes	no	no	
29063.74c	62.389	endf70b	ENDF/B-VII.0	2004	2500	327903	21900	150	yes	no	yes	no	no	
29063.62c	62.389	actia	ENDF/B-VI.8	2000	293.6	335072	22892	150	yes	no	yes	no	no	
29063.61c	62.389	actib	ENDF/B-VI.8	2000	77	348384	24556	150	yes	no	yes	no	no	
29063.66c	62.389	endf66a	ENDF/B-VI.6	1997	293.6	326281	22884	150	yes	no	yes	no	no	
29063.64c	62.389	endf66d	ENDF/B-VI.6	1997	77	339601	24549	150	yes	no	yes	no	no	
29063.60c	62.389	endf60	ENDF/B-VI.2	1989	293.6	119097	11309	20	yes	no	no	no	no	
29063.24c	62.389	la150n	ENDF/B-VI.6	1998	293.6	329768	23123	150	yes	no	yes	no	no	
29063.710nc	62.389	ENDF71x	ENDF/B-VII.1	2004	293.6	357743	25630	150.0	yes	no	yes	no	no	
29063.711nc	62.389	ENDF71x	ENDF/B-VII.1	2004	600.0	348928	24528	150.0	yes	no	yes	no	no	
29063.712nc	62.389	ENDF71x	ENDF/B-VII.1	2004	900.0	342942	23780	150.0	yes	no	yes	no	no	
29063.713nc	62.389	ENDF71x	ENDF/B-VII.1	2004	1200.0	338655	23244	150.0	yes	no	yes	no	no	
29063.714nc	62.389	ENDF71x	ENDF/B-VII.1	2004	2500.0	327903	21900	150.0	yes	no	yes	no	no	
29063.715nc	62.389	ENDF71x	ENDF/B-VII.1	2004	0.1	402737	31254	150.0	yes	no	yes	no	no	
29063.716nc	62.389	ENDF71x	ENDF/B-VII.1	2004	250.0	360001	25912	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
Cu-65														
29065.80c	64.37	ENDF71x	ENDF/B-VII.1	2004	293.6	314504	19692	150.0	yes	no	yes	no	no	
29065.81c	64.37	ENDF71x	ENDF/B-VII.1	2004	600.0	308775	18976	150.0	yes	no	yes	no	no	
29065.82c	64.37	ENDF71x	ENDF/B-VII.1	2004	900.0	304785	18477	150.0	yes	no	yes	no	no	
29065.83c	64.37	ENDF71x	ENDF/B-VII.1	2004	1200.0	302360	18174	150.0	yes	no	yes	no	no	
29065.84c	64.37	ENDF71x	ENDF/B-VII.1	2004	2500.0	295351	17298	150.0	yes	no	yes	no	no	
29065.85c	64.37	ENDF71x	ENDF/B-VII.1	2004	0.1	343976	23376	150.0	yes	no	yes	no	no	
29065.86c	64.37	ENDF71x	ENDF/B-VII.1	2004	250.0	315751	19848	150.0	yes	no	yes	no	no	
29065.70c	64.37	endf70b	ENDF/B-VII.0	2004	293.6	314505	19692	150	yes	no	yes	no	no	
29065.71c	64.37	endf70b	ENDF/B-VII.0	2004	600	308775	18976	150	yes	no	yes	no	no	
29065.72c	64.37	endf70b	ENDF/B-VII.0	2004	900	304785	18477	150	yes	no	yes	no	no	
29065.73c	64.37	endf70b	ENDF/B-VII.0	2004	1200	302359	18174	150	yes	no	yes	no	no	
29065.74c	64.37	endf70b	ENDF/B-VII.0	2004	2500	295352	17298	150	yes	no	yes	no	no	
29065.62c	64.37	actia	ENDF/B-VI.8	2000	293.6	296916	17593	150	yes	no	yes	no	no	
29065.61c	64.37	actib	ENDF/B-VI.8	2000	77	304772	18575	150	yes	no	yes	no	no	
29065.66c	64.37	endf66a	ENDF/B-VI.6	1997	293.6	283630	17576	150	yes	no	yes	no	no	
29065.64c	64.37	endf66d	ENDF/B-VI.6	1997	77	291518	18562	150	yes	no	yes	no	no	
29065.60c	64.37	endf60	ENDF/B-VI.2	1989	293.6	118385	11801	20	yes	no	no	no	no	
29065.24c	64.37	la150n	ENDF/B-VI.6	1998	293.6	285628	17640	150	yes	no	yes	no	no	
29065.710nc	64.37	ENDF71x	ENDF/B-VII.1	2004	293.6	314504	19692	150.0	yes	no	yes	no	no	
29065.711nc	64.37	ENDF71x	ENDF/B-VII.1	2004	600.0	308775	18976	150.0	yes	no	yes	no	no	
29065.712nc	64.37	ENDF71x	ENDF/B-VII.1	2004	900.0	304785	18477	150.0	yes	no	yes	no	no	
29065.713nc	64.37	ENDF71x	ENDF/B-VII.1	2004	1200.0	302360	18174	150.0	yes	no	yes	no	no	
29065.714nc	64.37	ENDF71x	ENDF/B-VII.1	2004	2500.0	295351	17298	150.0	yes	no	yes	no	no	
29065.715nc	64.37	ENDF71x	ENDF/B-VII.1	2004	0.1	343976	23376	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
29065.716nc	64.37	ENDF71x	ENDF/B-VII.1	2004	250.0	315751	19848	150.0	yes	no	yes	no	no	
				Z = 30, zinc										
Zn-0														
30000.70c	64.834	endf70b	ENDF/B-VII.0	1989	293.6	327274	35389	20	no	no	no	no	no	
30000.71c	64.834	endf70b	ENDF/B-VII.0	1989	600	302785	32668	20	no	no	no	no	no	
30000.72c	64.834	endf70b	ENDF/B-VII.0	1989	900	288125	31039	20	no	no	no	no	no	
30000.73c	64.834	endf70b	ENDF/B-VII.0	1989	1200	278476	29967	20	no	no	no	no	no	
30000.74c	64.834	endf70b	ENDF/B-VII.0	1989	2500	250514	26860	20	no	no	no	no	no	
30000.42c	64.8183	endl92	LLNL:X	<1992	300	271897	33027	30	yes	no	no	no	no	
30000.40c	64.8183	endl92	LLNL	<1992	300	271897	33027	30	yes	no	no	no	no	
Zn-64														
30064.80c	63.38	ENDF71x	ENDF/B-VII.1	2012	293.6	581315	29452	20.0	yes	no	yes	no	yes	
30064.81c	63.38	ENDF71x	ENDF/B-VII.1	2012	600.0	575036	28824	20.0	yes	no	yes	no	yes	
30064.82c	63.38	ENDF71x	ENDF/B-VII.1	2012	900.0	570385	28359	20.0	yes	no	yes	no	yes	
30064.83c	63.38	ENDF71x	ENDF/B-VII.1	2012	1200.0	566957	28016	20.0	yes	no	yes	no	yes	
30064.84c	63.38	ENDF71x	ENDF/B-VII.1	2012	2500.0	559058	27226	20.0	yes	no	yes	no	yes	
30064.85c	63.38	ENDF71x	ENDF/B-VII.1	2012	0.1	636657	34986	20.0	yes	no	yes	no	yes	
30064.86c	63.38	ENDF71x	ENDF/B-VII.1	2012	250.0	583256	29646	20.0	yes	no	yes	no	yes	
30064.710nc	63.38	ENDF71x	ENDF/B-VII.1	2012	293.6	581315	29452	20.0	yes	no	yes	no	yes	
30064.711nc	63.38	ENDF71x	ENDF/B-VII.1	2012	600.0	575036	28824	20.0	yes	no	yes	no	yes	
30064.712nc	63.38	ENDF71x	ENDF/B-VII.1	2012	900.0	570385	28359	20.0	yes	no	yes	no	yes	
30064.713nc	63.38	ENDF71x	ENDF/B-VII.1	2012	1200.0	566957	28016	20.0	yes	no	yes	no	yes	
30064.714nc	63.38	ENDF71x	ENDF/B-VII.1	2012	2500.0	559058	27226	20.0	yes	no	yes	no	yes	
30064.715nc	63.38	ENDF71x	ENDF/B-VII.1	2012	0.1	636657	34986	20.0	yes	no	yes	no	yes	
30064.716nc	63.38	ENDF71x	ENDF/B-VII.1	2012	250.0	583256	29646	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
Zn-65														
30065.80c	64.3715	ENDF71x	ENDF/B-VII.1	2012	293.6	195757	936	20.0	yes	no	yes	no	no	
30065.81c	64.3715	ENDF71x	ENDF/B-VII.1	2012	600.0	195828	942	20.0	yes	no	yes	no	no	
30065.82c	64.3715	ENDF71x	ENDF/B-VII.1	2012	900.0	195817	941	20.0	yes	no	yes	no	no	
30065.83c	64.3715	ENDF71x	ENDF/B-VII.1	2012	1200.0	195840	943	20.0	yes	no	yes	no	no	
30065.84c	64.3715	ENDF71x	ENDF/B-VII.1	2012	2500.0	195865	945	20.0	yes	no	yes	no	no	
30065.85c	64.3715	ENDF71x	ENDF/B-VII.1	2012	0.1	195708	932	20.0	yes	no	yes	no	no	
30065.86c	64.3715	ENDF71x	ENDF/B-VII.1	2012	250.0	195684	930	20.0	yes	no	yes	no	no	
30065.710nc	64.3715	ENDF71x	ENDF/B-VII.1	2012	293.6	195757	936	20.0	yes	no	yes	no	no	
30065.711nc	64.3715	ENDF71x	ENDF/B-VII.1	2012	600.0	195828	942	20.0	yes	no	yes	no	no	
30065.712nc	64.3715	ENDF71x	ENDF/B-VII.1	2012	900.0	195817	941	20.0	yes	no	yes	no	no	
30065.713nc	64.3715	ENDF71x	ENDF/B-VII.1	2012	1200.0	195840	943	20.0	yes	no	yes	no	no	
30065.714nc	64.3715	ENDF71x	ENDF/B-VII.1	2012	2500.0	195865	945	20.0	yes	no	yes	no	no	
30065.715nc	64.3715	ENDF71x	ENDF/B-VII.1	2012	0.1	195708	932	20.0	yes	no	yes	no	no	
30065.716nc	64.3715	ENDF71x	ENDF/B-VII.1	2012	250.0	195684	930	20.0	yes	no	yes	no	no	
Zn-66														
30066.80c	65.3597	ENDF71x	ENDF/B-VII.1	2012	293.6	398953	24121	20.0	yes	no	yes	no	yes	
30066.81c	65.3597	ENDF71x	ENDF/B-VII.1	2012	600.0	389682	23194	20.0	yes	no	yes	no	yes	
30066.82c	65.3597	ENDF71x	ENDF/B-VII.1	2012	900.0	384751	22701	20.0	yes	no	yes	no	yes	
30066.83c	65.3597	ENDF71x	ENDF/B-VII.1	2012	1200.0	382164	22442	20.0	yes	no	yes	no	yes	
30066.84c	65.3597	ENDF71x	ENDF/B-VII.1	2012	2500.0	372081	21434	20.0	yes	no	yes	no	yes	
30066.85c	65.3597	ENDF71x	ENDF/B-VII.1	2012	0.1	458894	30115	20.0	yes	no	yes	no	yes	
30066.86c	65.3597	ENDF71x	ENDF/B-VII.1	2012	250.0	400982	24324	20.0	yes	no	yes	no	yes	
30066.710nc	65.3597	ENDF71x	ENDF/B-VII.1	2012	293.6	398953	24121	20.0	yes	no	yes	no	yes	
30066.711nc	65.3597	ENDF71x	ENDF/B-VII.1	2012	600.0	389682	23194	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
30066.712nc	65.3597	ENDF71x	ENDF/B-VII.1	2012	900.0	384751	22701	20.0	yes	no	yes	no	yes	
30066.713nc	65.3597	ENDF71x	ENDF/B-VII.1	2012	1200.0	382164	22442	20.0	yes	no	yes	no	yes	
30066.714nc	65.3597	ENDF71x	ENDF/B-VII.1	2012	2500.0	372081	21434	20.0	yes	no	yes	no	yes	
30066.715nc	65.3597	ENDF71x	ENDF/B-VII.1	2012	0.1	458894	30115	20.0	yes	no	yes	no	yes	
30066.716nc	65.3597	ENDF71x	ENDF/B-VII.1	2012	250.0	400982	24324	20.0	yes	no	yes	no	yes	
Zn-67														
30067.80c	66.3522	ENDF71x	ENDF/B-VII.1	2012	293.6	517913	34477	20.0	yes	no	yes	no	yes	
30067.81c	66.3522	ENDF71x	ENDF/B-VII.1	2012	600.0	498182	32504	20.0	yes	no	yes	no	yes	
30067.82c	66.3522	ENDF71x	ENDF/B-VII.1	2012	900.0	485393	31225	20.0	yes	no	yes	no	yes	
30067.83c	66.3522	ENDF71x	ENDF/B-VII.1	2012	1200.0	477713	30457	20.0	yes	no	yes	no	yes	
30067.84c	66.3522	ENDF71x	ENDF/B-VII.1	2012	2500.0	451614	27847	20.0	yes	no	yes	no	yes	
30067.85c	66.3522	ENDF71x	ENDF/B-VII.1	2012	0.1	611843	43870	20.0	yes	no	yes	no	yes	
30067.86c	66.3522	ENDF71x	ENDF/B-VII.1	2012	250.0	521545	34840	20.0	yes	no	yes	no	yes	
30067.710nc	66.3522	ENDF71x	ENDF/B-VII.1	2012	293.6	517913	34477	20.0	yes	no	yes	no	yes	
30067.711nc	66.3522	ENDF71x	ENDF/B-VII.1	2012	600.0	498182	32504	20.0	yes	no	yes	no	yes	
30067.712nc	66.3522	ENDF71x	ENDF/B-VII.1	2012	900.0	485393	31225	20.0	yes	no	yes	no	yes	
30067.713nc	66.3522	ENDF71x	ENDF/B-VII.1	2012	1200.0	477713	30457	20.0	yes	no	yes	no	yes	
30067.714nc	66.3522	ENDF71x	ENDF/B-VII.1	2012	2500.0	451614	27847	20.0	yes	no	yes	no	yes	
30067.715nc	66.3522	ENDF71x	ENDF/B-VII.1	2012	0.1	611843	43870	20.0	yes	no	yes	no	yes	
30067.716nc	66.3522	ENDF71x	ENDF/B-VII.1	2012	250.0	521545	34840	20.0	yes	no	yes	no	yes	
Zn-68														
30068.80c	67.3413	ENDF71x	ENDF/B-VII.1	2012	293.6	291590	14348	20.0	yes	no	yes	no	yes	
30068.81c	67.3413	ENDF71x	ENDF/B-VII.1	2012	600.0	286700	13737	20.0	yes	no	yes	no	yes	
30068.82c	67.3413	ENDF71x	ENDF/B-VII.1	2012	900.0	284421	13452	20.0	yes	no	yes	no	yes	
30068.83c	67.3413	ENDF71x	ENDF/B-VII.1	2012	1200.0	281900	13137	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
30068.84c	67.3413	ENDF71x	ENDF/B-VII.1	2012	2500.0	277822	12627	20.0	yes	no	yes	no	yes	
30068.85c	67.3413	ENDF71x	ENDF/B-VII.1	2012	0.1	322629	18228	20.0	yes	no	yes	no	yes	
30068.86c	67.3413	ENDF71x	ENDF/B-VII.1	2012	250.0	292397	14449	20.0	yes	no	yes	no	yes	
30068.710nc	67.3413	ENDF71x	ENDF/B-VII.1	2012	293.6	291590	14348	20.0	yes	no	yes	no	yes	
30068.711nc	67.3413	ENDF71x	ENDF/B-VII.1	2012	600.0	286700	13737	20.0	yes	no	yes	no	yes	
30068.712nc	67.3413	ENDF71x	ENDF/B-VII.1	2012	900.0	284421	13452	20.0	yes	no	yes	no	yes	
30068.713nc	67.3413	ENDF71x	ENDF/B-VII.1	2012	1200.0	281900	13137	20.0	yes	no	yes	no	yes	
30068.714nc	67.3413	ENDF71x	ENDF/B-VII.1	2012	2500.0	277822	12627	20.0	yes	no	yes	no	yes	
30068.715nc	67.3413	ENDF71x	ENDF/B-VII.1	2012	0.1	322629	18228	20.0	yes	no	yes	no	yes	
30068.716nc	67.3413	ENDF71x	ENDF/B-VII.1	2012	250.0	292397	14449	20.0	yes	no	yes	no	yes	
Zn-70														
30070.80c	69.3246	ENDF71x	ENDF/B-VII.1	2012	293.6	262413	17841	20.0	yes	no	yes	no	yes	
30070.81c	69.3246	ENDF71x	ENDF/B-VII.1	2012	600.0	260421	17592	20.0	yes	no	yes	no	yes	
30070.82c	69.3246	ENDF71x	ENDF/B-VII.1	2012	900.0	259581	17487	20.0	yes	no	yes	no	yes	
30070.83c	69.3246	ENDF71x	ENDF/B-VII.1	2012	1200.0	258670	17373	20.0	yes	no	yes	no	yes	
30070.84c	69.3246	ENDF71x	ENDF/B-VII.1	2012	2500.0	256461	17097	20.0	yes	no	yes	no	yes	
30070.85c	69.3246	ENDF71x	ENDF/B-VII.1	2012	0.1	269116	18679	20.0	yes	no	yes	no	yes	
30070.86c	69.3246	ENDF71x	ENDF/B-VII.1	2012	250.0	262765	17885	20.0	yes	no	yes	no	yes	
30070.710nc	69.3246	ENDF71x	ENDF/B-VII.1	2012	293.6	262413	17841	20.0	yes	no	yes	no	yes	
30070.711nc	69.3246	ENDF71x	ENDF/B-VII.1	2012	600.0	260421	17592	20.0	yes	no	yes	no	yes	
30070.712nc	69.3246	ENDF71x	ENDF/B-VII.1	2012	900.0	259581	17487	20.0	yes	no	yes	no	yes	
30070.713nc	69.3246	ENDF71x	ENDF/B-VII.1	2012	1200.0	258670	17373	20.0	yes	no	yes	no	yes	
30070.714nc	69.3246	ENDF71x	ENDF/B-VII.1	2012	2500.0	256461	17097	20.0	yes	no	yes	no	yes	
30070.715nc	69.3246	ENDF71x	ENDF/B-VII.1	2012	0.1	269116	18679	20.0	yes	no	yes	no	yes	
30070.716nc	69.3246	ENDF71x	ENDF/B-VII.1	2012	250.0	262765	17885	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
				Z = 31, gallium										
Ga-0														
31000.66c	69.1211	endf66a	ENDF/B-VI.0	1980	293.6	14640	1130	20	yes	no	no	no	no	
31000.60c	69.1211	endf60	ENDF/B-VI.0	1980	293.6	9228	566	20	yes	no	no	no	no	
31000.50c	69.1211	rmccs	ENDF/B-V.0	1980	293.6	7928	511	20	yes	no	no	no	no	
31000.42c	69.1211	endl92	LLNL	<1992	300	6311	219	30	yes	no	no	no	no	
Ga-69														
31069.80c	68.3336	ENDF71x	ENDF/B-VII.1	2006	293.6	89987	6398	20.0	no	no	no	no	no	
31069.81c	68.3336	ENDF71x	ENDF/B-VII.1	2006	600.0	88545	6192	20.0	no	no	no	no	no	
31069.82c	68.3336	ENDF71x	ENDF/B-VII.1	2006	900.0	87354	6022	20.0	no	no	no	no	no	
31069.83c	68.3336	ENDF71x	ENDF/B-VII.1	2006	1200.0	86872	5953	20.0	no	no	no	no	no	
31069.84c	68.3336	ENDF71x	ENDF/B-VII.1	2006	2500.0	85445	5749	20.0	no	no	no	no	no	
31069.85c	68.3336	ENDF71x	ENDF/B-VII.1	2006	0.1	97983	7540	20.0	no	no	no	no	no	
31069.86c	68.3336	ENDF71x	ENDF/B-VII.1	2006	250.0	90400	6457	20.0	no	no	no	no	no	
31069.70c	68.3336	endf70b	ENDF/B-VII.0	2006	293.6	90099	6410	20	no	no	no	no	no	
31069.71c	68.3336	endf70b	ENDF/B-VII.0	2006	600	88657	6204	20	no	no	no	no	no	
31069.72c	68.3336	endf70b	ENDF/B-VII.0	2006	900	87466	6034	20	no	no	no	no	no	
31069.73c	68.3336	endf70b	ENDF/B-VII.0	2006	1200	86983	5965	20	no	no	no	no	no	
31069.74c	68.3336	endf70b	ENDF/B-VII.0	2006	2500	85557	5761	20	no	no	no	no	no	
31069.710nc	68.3336	ENDF71x	ENDF/B-VII.1	2006	293.6	89987	6398	20.0	no	no	no	no	no	
31069.711nc	68.3336	ENDF71x	ENDF/B-VII.1	2006	600.0	88545	6192	20.0	no	no	no	no	no	
31069.712nc	68.3336	ENDF71x	ENDF/B-VII.1	2006	900.0	87354	6022	20.0	no	no	no	no	no	
31069.713nc	68.3336	ENDF71x	ENDF/B-VII.1	2006	1200.0	86872	5953	20.0	no	no	no	no	no	
31069.714nc	68.3336	ENDF71x	ENDF/B-VII.1	2006	2500.0	85445	5749	20.0	no	no	no	no	no	
31069.715nc	68.3336	ENDF71x	ENDF/B-VII.1	2006	0.1	97983	7540	20.0	no	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
31069.716nc	68.3336	ENDF71x	ENDF/B-VII.1	2006	250.0	90400	6457	20.0	no	no	no	no	no	
Ga-71														
31071.80c	70.315	ENDF71x	ENDF/B-VII.1	2006	293.6	79155	6781	20.0	no	no	no	no	no	
31071.81c	70.315	ENDF71x	ENDF/B-VII.1	2006	600.0	77497	6544	20.0	no	no	no	no	no	
31071.82c	70.315	ENDF71x	ENDF/B-VII.1	2006	900.0	75976	6327	20.0	no	no	no	no	no	
31071.83c	70.315	ENDF71x	ENDF/B-VII.1	2006	1200.0	75641	6279	20.0	no	no	no	no	no	
31071.84c	70.315	ENDF71x	ENDF/B-VII.1	2006	2500.0	73653	5995	20.0	no	no	no	no	no	
31071.85c	70.315	ENDF71x	ENDF/B-VII.1	2006	0.1	88249	8080	20.0	no	no	no	no	no	
31071.86c	70.315	ENDF71x	ENDF/B-VII.1	2006	250.0	79462	6825	20.0	no	no	no	no	no	
31071.70c	70.315	endf70b	ENDF/B-VII.0	2006	293.6	79857	6876	20	no	no	no	no	no	
31071.71c	70.315	endf70b	ENDF/B-VII.0	2006	600	78199	6639	20	no	no	no	no	no	
31071.72c	70.315	endf70b	ENDF/B-VII.0	2006	900	76678	6422	20	no	no	no	no	no	
31071.73c	70.315	endf70b	ENDF/B-VII.0	2006	1200	76343	6374	20	no	no	no	no	no	
31071.74c	70.315	endf70b	ENDF/B-VII.0	2006	2500	74355	6090	20	no	no	no	no	no	
31071.710nc	70.315	ENDF71x	ENDF/B-VII.1	2006	293.6	79155	6781	20.0	no	no	no	no	no	
31071.711nc	70.315	ENDF71x	ENDF/B-VII.1	2006	600.0	77497	6544	20.0	no	no	no	no	no	
31071.712nc	70.315	ENDF71x	ENDF/B-VII.1	2006	900.0	75976	6327	20.0	no	no	no	no	no	
31071.713nc	70.315	ENDF71x	ENDF/B-VII.1	2006	1200.0	75641	6279	20.0	no	no	no	no	no	
31071.714nc	70.315	ENDF71x	ENDF/B-VII.1	2006	2500.0	73653	5995	20.0	no	no	no	no	no	
31071.715nc	70.315	ENDF71x	ENDF/B-VII.1	2006	0.1	88249	8080	20.0	no	no	no	no	no	
31071.716nc	70.315	ENDF71x	ENDF/B-VII.1	2006	250.0	79462	6825	20.0	no	no	no	no	no	
Z = 32, germanium														
Ge-70														
32070.80c	69.3236	ENDF71x	ENDF/B-VII.1	2004	293.6	418666	5133	20.0	yes	no	yes	no	no	
32070.81c	69.3236	ENDF71x	ENDF/B-VII.1	2004	600.0	418658	5132	20.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
32070.82c	69.3236	ENDF71x	ENDF/B-VII.1	2004	900.0	418657	5132	20.0	yes	no	yes	no	no	
32070.83c	69.3236	ENDF71x	ENDF/B-VII.1	2004	1200.0	418657	5132	20.0	yes	no	yes	no	no	
32070.84c	69.3236	ENDF71x	ENDF/B-VII.1	2004	2500.0	418650	5131	20.0	yes	no	yes	no	no	
32070.85c	69.3236	ENDF71x	ENDF/B-VII.1	2004	0.1	418649	5131	20.0	yes	no	yes	no	no	
32070.86c	69.3236	ENDF71x	ENDF/B-VII.1	2004	250.0	418665	5133	20.0	yes	no	yes	no	no	
32070.70c	69.3236	endf70b	ENDF/B-VII.0	2004	293.6	426229	5217	20	yes	no	yes	no	yes	
32070.71c	69.3236	endf70b	ENDF/B-VII.0	2004	600	426221	5216	20	yes	no	yes	no	yes	
32070.72c	69.3236	endf70b	ENDF/B-VII.0	2004	900	426220	5216	20	yes	no	yes	no	yes	
32070.73c	69.3236	endf70b	ENDF/B-VII.0	2004	1200	426220	5216	20	yes	no	yes	no	yes	
32070.74c	69.3236	endf70b	ENDF/B-VII.0	2004	2500	426213	5215	20	yes	no	yes	no	yes	
32070.710nc	69.3236	ENDF71x	ENDF/B-VII.1	2004	293.6	418666	5133	20.0	yes	no	yes	no	no	
32070.711nc	69.3236	ENDF71x	ENDF/B-VII.1	2004	600.0	418658	5132	20.0	yes	no	yes	no	no	
32070.712nc	69.3236	ENDF71x	ENDF/B-VII.1	2004	900.0	418657	5132	20.0	yes	no	yes	no	no	
32070.713nc	69.3236	ENDF71x	ENDF/B-VII.1	2004	1200.0	418657	5132	20.0	yes	no	yes	no	no	
32070.714nc	69.3236	ENDF71x	ENDF/B-VII.1	2004	2500.0	418650	5131	20.0	yes	no	yes	no	no	
32070.715nc	69.3236	ENDF71x	ENDF/B-VII.1	2004	0.1	418649	5131	20.0	yes	no	yes	no	no	
32070.716nc	69.3236	ENDF71x	ENDF/B-VII.1	2004	250.0	418665	5133	20.0	yes	no	yes	no	no	
Ge-72														
32072.80c	71.3042	ENDF71x	ENDF/B-VII.1	2004	293.6	251683	4763	20.0	yes	no	yes	no	yes	
32072.81c	71.3042	ENDF71x	ENDF/B-VII.1	2004	600.0	251570	4749	20.0	yes	no	yes	no	yes	
32072.82c	71.3042	ENDF71x	ENDF/B-VII.1	2004	900.0	251530	4744	20.0	yes	no	yes	no	yes	
32072.83c	71.3042	ENDF71x	ENDF/B-VII.1	2004	1200.0	251458	4735	20.0	yes	no	yes	no	yes	
32072.84c	71.3042	ENDF71x	ENDF/B-VII.1	2004	2500.0	251250	4709	20.0	yes	no	yes	no	yes	
32072.85c	71.3042	ENDF71x	ENDF/B-VII.1	2004	0.1	253051	4934	20.0	yes	no	yes	no	yes	
32072.86c	71.3042	ENDF71x	ENDF/B-VII.1	2004	250.0	251754	4772	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
32072.70c	71.3042	endf70b	ENDF/B-VII.0	2004	293.6	255192	4895	20	yes	no	yes	no	yes	
32072.71c	71.3042	endf70b	ENDF/B-VII.0	2004	600	255079	4881	20	yes	no	yes	no	yes	
32072.72c	71.3042	endf70b	ENDF/B-VII.0	2004	900	255039	4876	20	yes	no	yes	no	yes	
32072.73c	71.3042	endf70b	ENDF/B-VII.0	2004	1200	254967	4867	20	yes	no	yes	no	yes	
32072.74c	71.3042	endf70b	ENDF/B-VII.0	2004	2500	254759	4841	20	yes	no	yes	no	yes	
32072.710nc	71.3042	ENDF71x	ENDF/B-VII.1	2004	293.6	251683	4763	20.0	yes	no	yes	no	yes	
32072.711nc	71.3042	ENDF71x	ENDF/B-VII.1	2004	600.0	251570	4749	20.0	yes	no	yes	no	yes	
32072.712nc	71.3042	ENDF71x	ENDF/B-VII.1	2004	900.0	251530	4744	20.0	yes	no	yes	no	yes	
32072.713nc	71.3042	ENDF71x	ENDF/B-VII.1	2004	1200.0	251458	4735	20.0	yes	no	yes	no	yes	
32072.714nc	71.3042	ENDF71x	ENDF/B-VII.1	2004	2500.0	251250	4709	20.0	yes	no	yes	no	yes	
32072.715nc	71.3042	ENDF71x	ENDF/B-VII.1	2004	0.1	253051	4934	20.0	yes	no	yes	no	yes	
32072.716nc	71.3042	ENDF71x	ENDF/B-VII.1	2004	250.0	251754	4772	20.0	yes	no	yes	no	yes	
Ge-73														
32073.80c	72.297	ENDF71x	ENDF/B-VII.1	2004	293.6	627476	14429	20.0	yes	no	yes	no	yes	
32073.81c	72.297	ENDF71x	ENDF/B-VII.1	2004	600.0	626187	14268	20.0	yes	no	yes	no	yes	
32073.82c	72.297	ENDF71x	ENDF/B-VII.1	2004	900.0	625076	14129	20.0	yes	no	yes	no	yes	
32073.83c	72.297	ENDF71x	ENDF/B-VII.1	2004	1200.0	624179	14017	20.0	yes	no	yes	no	yes	
32073.84c	72.297	ENDF71x	ENDF/B-VII.1	2004	2500.0	622227	13773	20.0	yes	no	yes	no	yes	
32073.85c	72.297	ENDF71x	ENDF/B-VII.1	2004	0.1	634443	15300	20.0	yes	no	yes	no	yes	
32073.86c	72.297	ENDF71x	ENDF/B-VII.1	2004	250.0	627779	14467	20.0	yes	no	yes	no	yes	
32073.70c	72.297	endf70b	ENDF/B-VII.0	2004	293.6	631521	14507	20	yes	no	yes	no	yes	
32073.71c	72.297	endf70b	ENDF/B-VII.0	2004	600	630232	14346	20	yes	no	yes	no	yes	
32073.72c	72.297	endf70b	ENDF/B-VII.0	2004	900	629121	14207	20	yes	no	yes	no	yes	
32073.73c	72.297	endf70b	ENDF/B-VII.0	2004	1200	628224	14095	20	yes	no	yes	no	yes	
32073.74c	72.297	endf70b	ENDF/B-VII.0	2004	2500	626272	13851	20	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
32073.710nc	72.297	ENDF71x	ENDF/B-VII.1	2004	293.6	627476	14429	20.0	yes	no	yes	no	yes	
32073.711nc	72.297	ENDF71x	ENDF/B-VII.1	2004	600.0	626187	14268	20.0	yes	no	yes	no	yes	
32073.712nc	72.297	ENDF71x	ENDF/B-VII.1	2004	900.0	625076	14129	20.0	yes	no	yes	no	yes	
32073.713nc	72.297	ENDF71x	ENDF/B-VII.1	2004	1200.0	624179	14017	20.0	yes	no	yes	no	yes	
32073.714nc	72.297	ENDF71x	ENDF/B-VII.1	2004	2500.0	622227	13773	20.0	yes	no	yes	no	yes	
32073.715nc	72.297	ENDF71x	ENDF/B-VII.1	2004	0.1	634443	15300	20.0	yes	no	yes	no	yes	
32073.716nc	72.297	ENDF71x	ENDF/B-VII.1	2004	250.0	627779	14467	20.0	yes	no	yes	no	yes	
Ge-74														
32074.80c	73.2862	ENDF71x	ENDF/B-VII.1	2004	293.6	129776	1777	20.0	yes	no	yes	no	yes	
32074.81c	73.2862	ENDF71x	ENDF/B-VII.1	2004	600.0	129672	1764	20.0	yes	no	yes	no	yes	
32074.82c	73.2862	ENDF71x	ENDF/B-VII.1	2004	900.0	129464	1738	20.0	yes	no	yes	no	yes	
32074.83c	73.2862	ENDF71x	ENDF/B-VII.1	2004	1200.0	129440	1735	20.0	yes	no	yes	no	yes	
32074.84c	73.2862	ENDF71x	ENDF/B-VII.1	2004	2500.0	129040	1685	20.0	yes	no	yes	no	yes	
32074.85c	73.2862	ENDF71x	ENDF/B-VII.1	2004	0.1	131241	1960	20.0	yes	no	yes	no	yes	
32074.86c	73.2862	ENDF71x	ENDF/B-VII.1	2004	250.0	129840	1785	20.0	yes	no	yes	no	yes	
32074.70c	73.2862	endf70b	ENDF/B-VII.0	2004	293.6	130027	1874	20	yes	no	yes	no	yes	
32074.71c	73.2862	endf70b	ENDF/B-VII.0	2004	600	129923	1861	20	yes	no	yes	no	yes	
32074.72c	73.2862	endf70b	ENDF/B-VII.0	2004	900	129715	1835	20	yes	no	yes	no	yes	
32074.73c	73.2862	endf70b	ENDF/B-VII.0	2004	1200	129691	1832	20	yes	no	yes	no	yes	
32074.74c	73.2862	endf70b	ENDF/B-VII.0	2004	2500	129291	1782	20	yes	no	yes	no	yes	
32074.710nc	73.2862	ENDF71x	ENDF/B-VII.1	2004	293.6	129776	1777	20.0	yes	no	yes	no	yes	
32074.711nc	73.2862	ENDF71x	ENDF/B-VII.1	2004	600.0	129672	1764	20.0	yes	no	yes	no	yes	
32074.712nc	73.2862	ENDF71x	ENDF/B-VII.1	2004	900.0	129464	1738	20.0	yes	no	yes	no	yes	
32074.713nc	73.2862	ENDF71x	ENDF/B-VII.1	2004	1200.0	129440	1735	20.0	yes	no	yes	no	yes	
32074.714nc	73.2862	ENDF71x	ENDF/B-VII.1	2004	2500.0	129040	1685	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
32074.715nc	73.2862	ENDF71x	ENDF/B-VII.1	2004	0.1	131241	1960	20.0	yes	no	yes	no	yes	
32074.716nc	73.2862	ENDF71x	ENDF/B-VII.1	2004	250.0	129840	1785	20.0	yes	no	yes	no	yes	
Ge-76														
32076.80c	75.2692	ENDF71x	ENDF/B-VII.1	2004	293.6	133636	2920	20.0	yes	no	yes	no	yes	
32076.81c	75.2692	ENDF71x	ENDF/B-VII.1	2004	600.0	133052	2847	20.0	yes	no	yes	no	yes	
32076.82c	75.2692	ENDF71x	ENDF/B-VII.1	2004	900.0	132772	2812	20.0	yes	no	yes	no	yes	
32076.83c	75.2692	ENDF71x	ENDF/B-VII.1	2004	1200.0	132540	2783	20.0	yes	no	yes	no	yes	
32076.84c	75.2692	ENDF71x	ENDF/B-VII.1	2004	2500.0	131565	2661	20.0	yes	no	yes	no	yes	
32076.85c	75.2692	ENDF71x	ENDF/B-VII.1	2004	0.1	135013	3092	20.0	yes	no	yes	no	yes	
32076.86c	75.2692	ENDF71x	ENDF/B-VII.1	2004	250.0	133741	2933	20.0	yes	no	yes	no	yes	
32076.70c	75.2692	endf70b	ENDF/B-VII.0	2004	293.6	133389	2981	20	yes	no	yes	no	yes	
32076.71c	75.2692	endf70b	ENDF/B-VII.0	2004	600	132805	2908	20	yes	no	yes	no	yes	
32076.72c	75.2692	endf70b	ENDF/B-VII.0	2004	900	132525	2873	20	yes	no	yes	no	yes	
32076.73c	75.2692	endf70b	ENDF/B-VII.0	2004	1200	132293	2844	20	yes	no	yes	no	yes	
32076.74c	75.2692	endf70b	ENDF/B-VII.0	2004	2500	131318	2722	20	yes	no	yes	no	yes	
32076.710nc	75.2692	ENDF71x	ENDF/B-VII.1	2004	293.6	133636	2920	20.0	yes	no	yes	no	yes	
32076.711nc	75.2692	ENDF71x	ENDF/B-VII.1	2004	600.0	133052	2847	20.0	yes	no	yes	no	yes	
32076.712nc	75.2692	ENDF71x	ENDF/B-VII.1	2004	900.0	132772	2812	20.0	yes	no	yes	no	yes	
32076.713nc	75.2692	ENDF71x	ENDF/B-VII.1	2004	1200.0	132540	2783	20.0	yes	no	yes	no	yes	
32076.714nc	75.2692	ENDF71x	ENDF/B-VII.1	2004	2500.0	131565	2661	20.0	yes	no	yes	no	yes	
32076.715nc	75.2692	ENDF71x	ENDF/B-VII.1	2004	0.1	135013	3092	20.0	yes	no	yes	no	yes	
32076.716nc	75.2692	ENDF71x	ENDF/B-VII.1	2004	250.0	133741	2933	20.0	yes	no	yes	no	yes	
Z = 33, arsenic														
As-74														
33074.80c	73.2889	ENDF71x	ENDF/B-VII.1	2006	293.6	277203	1426	20.0	yes	no	yes	no	yes	

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Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
33074.81c	73.2889	ENDF71x	ENDF/B-VII.1	2006	600.0	276971	1397	20.0	yes	no	yes	no	yes	
33074.82c	73.2889	ENDF71x	ENDF/B-VII.1	2006	900.0	276907	1389	20.0	yes	no	yes	no	yes	
33074.83c	73.2889	ENDF71x	ENDF/B-VII.1	2006	1200.0	276819	1378	20.0	yes	no	yes	no	yes	
33074.84c	73.2889	ENDF71x	ENDF/B-VII.1	2006	2500.0	276387	1324	20.0	yes	no	yes	no	yes	
33074.85c	73.2889	ENDF71x	ENDF/B-VII.1	2006	0.1	277099	1413	20.0	yes	no	yes	no	yes	
33074.86c	73.2889	ENDF71x	ENDF/B-VII.1	2006	250.0	277227	1429	20.0	yes	no	yes	no	yes	
33074.70c	73.2889	endf70c	ENDF/B-VII.0	2006	293.6	275879	1595	20	yes	no	yes	no	no	
33074.71c	73.2889	endf70c	ENDF/B-VII.0	2006	600	275647	1566	20	yes	no	yes	no	no	
33074.72c	73.2889	endf70c	ENDF/B-VII.0	2006	900	275583	1558	20	yes	no	yes	no	no	
33074.73c	73.2889	endf70c	ENDF/B-VII.0	2006	1200	275495	1547	20	yes	no	yes	no	no	
33074.74c	73.2889	endf70c	ENDF/B-VII.0	2006	2500	275063	1493	20	yes	no	yes	no	no	
33074.42c	73.2889	endl92	LLNL	<1992	300	55752	6851	30	yes	no	no	no	no	
33074.710nc	73.2889	ENDF71x	ENDF/B-VII.1	2006	293.6	277203	1426	20.0	yes	no	yes	no	yes	
33074.711nc	73.2889	ENDF71x	ENDF/B-VII.1	2006	600.0	276971	1397	20.0	yes	no	yes	no	yes	
33074.712nc	73.2889	ENDF71x	ENDF/B-VII.1	2006	900.0	276907	1389	20.0	yes	no	yes	no	yes	
33074.713nc	73.2889	ENDF71x	ENDF/B-VII.1	2006	1200.0	276819	1378	20.0	yes	no	yes	no	yes	
33074.714nc	73.2889	ENDF71x	ENDF/B-VII.1	2006	2500.0	276387	1324	20.0	yes	no	yes	no	yes	
33074.715nc	73.2889	ENDF71x	ENDF/B-VII.1	2006	0.1	277099	1413	20.0	yes	no	yes	no	yes	
33074.716nc	73.2889	ENDF71x	ENDF/B-VII.1	2006	250.0	277227	1429	20.0	yes	no	yes	no	yes	
As-75														
33075.80c	74.278	ENDF71x	ENDF/B-VII.1	2010	293.6	423969	26607	20.0	yes	no	yes	no	yes	
33075.81c	74.278	ENDF71x	ENDF/B-VII.1	2010	600.0	408961	24731	20.0	yes	no	yes	no	yes	
33075.82c	74.278	ENDF71x	ENDF/B-VII.1	2010	900.0	400026	23614	20.0	yes	no	yes	no	yes	
33075.83c	74.278	ENDF71x	ENDF/B-VII.1	2010	1200.0	392082	22621	20.0	yes	no	yes	no	yes	
33075.84c	74.278	ENDF71x	ENDF/B-VII.1	2010	2500.0	372033	20115	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
33075.85c	74.278	ENDF71x	ENDF/B-VII.1	2010	0.1	490217	34888	20.0	yes	no	yes	no	yes	
33075.86c	74.278	ENDF71x	ENDF/B-VII.1	2010	250.0	427481	27046	20.0	yes	no	yes	no	yes	
33075.70c	74.278	endf70c	ENDF/B-VII.0	2006	293.6	423427	26652	20	yes	no	yes	no	yes	
33075.71c	74.278	endf70c	ENDF/B-VII.0	2006	600	408419	24776	20	yes	no	yes	no	yes	
33075.72c	74.278	endf70c	ENDF/B-VII.0	2006	900	399483	23659	20	yes	no	yes	no	yes	
33075.73c	74.278	endf70c	ENDF/B-VII.0	2006	1200	391539	22666	20	yes	no	yes	no	yes	
33075.74c	74.278	endf70c	ENDF/B-VII.0	2006	2500	371491	20160	20	yes	no	yes	no	yes	
33075.35c	74.278	rmccsa	ENDF/B-V.0	1974	0	50931	6421	20	yes	no	no	no	no	
33075.42c	74.278	endl92	LLNL	<1992	300	56915	6840	30	yes	no	no	no	no	
33075.710nc	74.278	ENDF71x	ENDF/B-VII.1	2010	293.6	423969	26607	20.0	yes	no	yes	no	yes	
33075.711nc	74.278	ENDF71x	ENDF/B-VII.1	2010	600.0	408961	24731	20.0	yes	no	yes	no	yes	
33075.712nc	74.278	ENDF71x	ENDF/B-VII.1	2010	900.0	400026	23614	20.0	yes	no	yes	no	yes	
33075.713nc	74.278	ENDF71x	ENDF/B-VII.1	2010	1200.0	392082	22621	20.0	yes	no	yes	no	yes	
33075.714nc	74.278	ENDF71x	ENDF/B-VII.1	2010	2500.0	372033	20115	20.0	yes	no	yes	no	yes	
33075.715nc	74.278	ENDF71x	ENDF/B-VII.1	2010	0.1	490217	34888	20.0	yes	no	yes	no	yes	
33075.716nc	74.278	ENDF71x	ENDF/B-VII.1	2010	250.0	427481	27046	20.0	yes	no	yes	no	yes	
				Z = 34, selenium										
Se-74														
34074.80c	73.2875	ENDF71x	ENDF/B-VII.1	2006	293.6	76742	5412	20.0	no	no	no	no	yes	
34074.81c	73.2875	ENDF71x	ENDF/B-VII.1	2006	600.0	76203	5335	20.0	no	no	no	no	yes	
34074.82c	73.2875	ENDF71x	ENDF/B-VII.1	2006	900.0	76000	5306	20.0	no	no	no	no	yes	
34074.83c	73.2875	ENDF71x	ENDF/B-VII.1	2006	1200.0	75819	5280	20.0	no	no	no	no	yes	
34074.84c	73.2875	ENDF71x	ENDF/B-VII.1	2006	2500.0	74860	5143	20.0	no	no	no	no	yes	
34074.85c	73.2875	ENDF71x	ENDF/B-VII.1	2006	0.1	78264	5629	20.0	no	no	no	no	yes	
34074.86c	73.2875	ENDF71x	ENDF/B-VII.1	2006	250.0	76772	5416	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
34074.70c	73.2875	endf70c	ENDF/B-VII.0	2006	293.6	77050	5462	20	no	no	no	no	yes	
34074.71c	73.2875	endf70c	ENDF/B-VII.0	2006	600	76510	5385	20	no	no	no	no	yes	
34074.72c	73.2875	endf70c	ENDF/B-VII.0	2006	900	76308	5356	20	no	no	no	no	yes	
34074.73c	73.2875	endf70c	ENDF/B-VII.0	2006	1200	76125	5330	20	no	no	no	no	yes	
34074.74c	73.2875	endf70c	ENDF/B-VII.0	2006	2500	75167	5193	20	no	no	no	no	yes	
34074.710nc	73.2875	ENDF71x	ENDF/B-VII.1	2006	293.6	76742	5412	20.0	no	no	no	no	yes	
34074.711nc	73.2875	ENDF71x	ENDF/B-VII.1	2006	600.0	76203	5335	20.0	no	no	no	no	yes	
34074.712nc	73.2875	ENDF71x	ENDF/B-VII.1	2006	900.0	76000	5306	20.0	no	no	no	no	yes	
34074.713nc	73.2875	ENDF71x	ENDF/B-VII.1	2006	1200.0	75819	5280	20.0	no	no	no	no	yes	
34074.714nc	73.2875	ENDF71x	ENDF/B-VII.1	2006	2500.0	74860	5143	20.0	no	no	no	no	yes	
34074.715nc	73.2875	ENDF71x	ENDF/B-VII.1	2006	0.1	78264	5629	20.0	no	no	no	no	yes	
34074.716nc	73.2875	ENDF71x	ENDF/B-VII.1	2006	250.0	76772	5416	20.0	no	no	no	no	yes	
Se-76														
34076.80c	75.267	ENDF71x	ENDF/B-VII.1	2006	293.6	133963	7392	20.0	no	no	no	no	yes	
34076.81c	75.267	ENDF71x	ENDF/B-VII.1	2006	600.0	132666	7207	20.0	no	no	no	no	yes	
34076.82c	75.267	ENDF71x	ENDF/B-VII.1	2006	900.0	131995	7111	20.0	no	no	no	no	yes	
34076.83c	75.267	ENDF71x	ENDF/B-VII.1	2006	1200.0	131686	7067	20.0	no	no	no	no	yes	
34076.84c	75.267	ENDF71x	ENDF/B-VII.1	2006	2500.0	130210	6856	20.0	no	no	no	no	yes	
34076.85c	75.267	ENDF71x	ENDF/B-VII.1	2006	0.1	141221	8429	20.0	no	no	no	no	yes	
34076.86c	75.267	ENDF71x	ENDF/B-VII.1	2006	250.0	134283	7438	20.0	no	no	no	no	yes	
34076.70c	75.267	endf70c	ENDF/B-VII.0	2006	293.6	134181	7435	20	no	no	no	no	yes	
34076.71c	75.267	endf70c	ENDF/B-VII.0	2006	600	132884	7250	20	no	no	no	no	yes	
34076.72c	75.267	endf70c	ENDF/B-VII.0	2006	900	132212	7154	20	no	no	no	no	yes	
34076.73c	75.267	endf70c	ENDF/B-VII.0	2006	1200	131904	7110	20	no	no	no	no	yes	
34076.74c	75.267	endf70c	ENDF/B-VII.0	2006	2500	130427	6899	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
34076.710nc	75.267	ENDF71x	ENDF/B-VII.1	2006	293.6	133963	7392	20.0	no	no	no	no	yes	
34076.711nc	75.267	ENDF71x	ENDF/B-VII.1	2006	600.0	132666	7207	20.0	no	no	no	no	yes	
34076.712nc	75.267	ENDF71x	ENDF/B-VII.1	2006	900.0	131995	7111	20.0	no	no	no	no	yes	
34076.713nc	75.267	ENDF71x	ENDF/B-VII.1	2006	1200.0	131686	7067	20.0	no	no	no	no	yes	
34076.714nc	75.267	ENDF71x	ENDF/B-VII.1	2006	2500.0	130210	6856	20.0	no	no	no	no	yes	
34076.715nc	75.267	ENDF71x	ENDF/B-VII.1	2006	0.1	141221	8429	20.0	no	no	no	no	yes	
34076.716nc	75.267	ENDF71x	ENDF/B-VII.1	2006	250.0	134283	7438	20.0	no	no	no	no	yes	
Se-77														
34077.80c	76.2591	ENDF71x	ENDF/B-VII.1	2006	293.6	154064	10148	20.0	no	no	no	no	yes	
34077.81c	76.2591	ENDF71x	ENDF/B-VII.1	2006	600.0	151151	9732	20.0	no	no	no	no	yes	
34077.82c	76.2591	ENDF71x	ENDF/B-VII.1	2006	900.0	149715	9527	20.0	no	no	no	no	yes	
34077.83c	76.2591	ENDF71x	ENDF/B-VII.1	2006	1200.0	148721	9385	20.0	no	no	no	no	yes	
34077.84c	76.2591	ENDF71x	ENDF/B-VII.1	2006	2500.0	145186	8880	20.0	no	no	no	no	yes	
34077.85c	76.2591	ENDF71x	ENDF/B-VII.1	2006	0.1	163673	11521	20.0	no	no	no	no	yes	
34077.86c	76.2591	ENDF71x	ENDF/B-VII.1	2006	250.0	154916	10270	20.0	no	no	no	no	yes	
34077.70c	76.2591	endf70c	ENDF/B-VII.0	2006	293.6	154272	10187	20	no	no	no	no	yes	
34077.71c	76.2591	endf70c	ENDF/B-VII.0	2006	600	151359	9771	20	no	no	no	no	yes	
34077.72c	76.2591	endf70c	ENDF/B-VII.0	2006	900	149923	9566	20	no	no	no	no	yes	
34077.73c	76.2591	endf70c	ENDF/B-VII.0	2006	1200	148929	9424	20	no	no	no	no	yes	
34077.74c	76.2591	endf70c	ENDF/B-VII.0	2006	2500	145394	8919	20	no	no	no	no	yes	
34077.710nc	76.2591	ENDF71x	ENDF/B-VII.1	2006	293.6	154064	10148	20.0	no	no	no	no	yes	
34077.711nc	76.2591	ENDF71x	ENDF/B-VII.1	2006	600.0	151151	9732	20.0	no	no	no	no	yes	
34077.712nc	76.2591	ENDF71x	ENDF/B-VII.1	2006	900.0	149715	9527	20.0	no	no	no	no	yes	
34077.713nc	76.2591	ENDF71x	ENDF/B-VII.1	2006	1200.0	148721	9385	20.0	no	no	no	no	yes	
34077.714nc	76.2591	ENDF71x	ENDF/B-VII.1	2006	2500.0	145186	8880	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
34077.715nc	76.2591	ENDF71x	ENDF/B-VII.1	2006	0.1	163673	11521	20.0	no	no	no	no	yes	
34077.716nc	76.2591	ENDF71x	ENDF/B-VII.1	2006	250.0	154916	10270	20.0	no	no	no	no	yes	
Se-78														
34078.80c	77.2479	ENDF71x	ENDF/B-VII.1	2006	293.6	98475	5992	20.0	no	no	no	no	yes	
34078.81c	77.2479	ENDF71x	ENDF/B-VII.1	2006	600.0	97670	5877	20.0	no	no	no	no	yes	
34078.82c	77.2479	ENDF71x	ENDF/B-VII.1	2006	900.0	96991	5780	20.0	no	no	no	no	yes	
34078.83c	77.2479	ENDF71x	ENDF/B-VII.1	2006	1200.0	96563	5719	20.0	no	no	no	no	yes	
34078.84c	77.2479	ENDF71x	ENDF/B-VII.1	2006	2500.0	95408	5554	20.0	no	no	no	no	yes	
34078.85c	77.2479	ENDF71x	ENDF/B-VII.1	2006	0.1	103635	6729	20.0	no	no	no	no	yes	
34078.86c	77.2479	ENDF71x	ENDF/B-VII.1	2006	250.0	98747	6031	20.0	no	no	no	no	yes	
34078.70c	77.2479	endf70c	ENDF/B-VII.0	2006	293.6	98758	6034	20	no	no	no	no	yes	
34078.71c	77.2479	endf70c	ENDF/B-VII.0	2006	600	97953	5919	20	no	no	no	no	yes	
34078.72c	77.2479	endf70c	ENDF/B-VII.0	2006	900	97274	5822	20	no	no	no	no	yes	
34078.73c	77.2479	endf70c	ENDF/B-VII.0	2006	1200	96846	5761	20	no	no	no	no	yes	
34078.74c	77.2479	endf70c	ENDF/B-VII.0	2006	2500	95691	5596	20	no	no	no	no	yes	
34078.710nc	77.2479	ENDF71x	ENDF/B-VII.1	2006	293.6	98475	5992	20.0	no	no	no	no	yes	
34078.711nc	77.2479	ENDF71x	ENDF/B-VII.1	2006	600.0	97670	5877	20.0	no	no	no	no	yes	
34078.712nc	77.2479	ENDF71x	ENDF/B-VII.1	2006	900.0	96991	5780	20.0	no	no	no	no	yes	
34078.713nc	77.2479	ENDF71x	ENDF/B-VII.1	2006	1200.0	96563	5719	20.0	no	no	no	no	yes	
34078.714nc	77.2479	ENDF71x	ENDF/B-VII.1	2006	2500.0	95408	5554	20.0	no	no	no	no	yes	
34078.715nc	77.2479	ENDF71x	ENDF/B-VII.1	2006	0.1	103635	6729	20.0	no	no	no	no	yes	
34078.716nc	77.2479	ENDF71x	ENDF/B-VII.1	2006	250.0	98747	6031	20.0	no	no	no	no	yes	
Se-79														
34079.80c	78.2405	ENDF71x	ENDF/B-VII.1	2006	293.6	110552	2653	20.0	no	no	no	no	yes	
34079.81c	78.2405	ENDF71x	ENDF/B-VII.1	2006	600.0	110573	2656	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
34079.82c	78.2405	ENDF71x	ENDF/B-VII.1	2006	900.0	110509	2647	20.0	no	no	no	no	yes	
34079.83c	78.2405	ENDF71x	ENDF/B-VII.1	2006	1200.0	110545	2652	20.0	no	no	no	no	yes	
34079.84c	78.2405	ENDF71x	ENDF/B-VII.1	2006	2500.0	110558	2654	20.0	no	no	no	no	yes	
34079.85c	78.2405	ENDF71x	ENDF/B-VII.1	2006	0.1	110460	2640	20.0	no	no	no	no	yes	
34079.86c	78.2405	ENDF71x	ENDF/B-VII.1	2006	250.0	110526	2649	20.0	no	no	no	no	yes	
34079.70c	78.2405	endf70c	ENDF/B-VII.0	2006	293.6	106273	2680	20	no	no	no	no	no	
34079.71c	78.2405	endf70c	ENDF/B-VII.0	2006	600	106294	2683	20	no	no	no	no	no	
34079.72c	78.2405	endf70c	ENDF/B-VII.0	2006	900	106230	2674	20	no	no	no	no	no	
34079.73c	78.2405	endf70c	ENDF/B-VII.0	2006	1200	106266	2679	20	no	no	no	no	no	
34079.74c	78.2405	endf70c	ENDF/B-VII.0	2006	2500	106279	2681	20	no	no	no	no	no	
34079.710nc	78.2405	ENDF71x	ENDF/B-VII.1	2006	293.6	110552	2653	20.0	no	no	no	no	yes	
34079.711nc	78.2405	ENDF71x	ENDF/B-VII.1	2006	600.0	110573	2656	20.0	no	no	no	no	yes	
34079.712nc	78.2405	ENDF71x	ENDF/B-VII.1	2006	900.0	110509	2647	20.0	no	no	no	no	yes	
34079.713nc	78.2405	ENDF71x	ENDF/B-VII.1	2006	1200.0	110545	2652	20.0	no	no	no	no	yes	
34079.714nc	78.2405	ENDF71x	ENDF/B-VII.1	2006	2500.0	110558	2654	20.0	no	no	no	no	yes	
34079.715nc	78.2405	ENDF71x	ENDF/B-VII.1	2006	0.1	110460	2640	20.0	no	no	no	no	yes	
34079.716nc	78.2405	ENDF71x	ENDF/B-VII.1	2006	250.0	110526	2649	20.0	no	no	no	no	yes	
Se-80														
34080.80c	79.23	ENDF71x	ENDF/B-VII.1	2006	293.6	110550	4713	20.0	no	no	no	no	yes	
34080.81c	79.23	ENDF71x	ENDF/B-VII.1	2006	600.0	110046	4641	20.0	no	no	no	no	yes	
34080.82c	79.23	ENDF71x	ENDF/B-VII.1	2006	900.0	109871	4616	20.0	no	no	no	no	yes	
34080.83c	79.23	ENDF71x	ENDF/B-VII.1	2006	1200.0	109633	4582	20.0	no	no	no	no	yes	
34080.84c	79.23	ENDF71x	ENDF/B-VII.1	2006	2500.0	109010	4493	20.0	no	no	no	no	yes	
34080.85c	79.23	ENDF71x	ENDF/B-VII.1	2006	0.1	113048	5070	20.0	no	no	no	no	yes	
34080.86c	79.23	ENDF71x	ENDF/B-VII.1	2006	250.0	110669	4730	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
34080.70c	79.23	endf70c	ENDF/B-VII.0	2006	293.6	110548	4734	20	no	no	no	no	yes	
34080.71c	79.23	endf70c	ENDF/B-VII.0	2006	600	110045	4662	20	no	no	no	no	yes	
34080.72c	79.23	endf70c	ENDF/B-VII.0	2006	900	109870	4637	20	no	no	no	no	yes	
34080.73c	79.23	endf70c	ENDF/B-VII.0	2006	1200	109632	4603	20	no	no	no	no	yes	
34080.74c	79.23	endf70c	ENDF/B-VII.0	2006	2500	109009	4514	20	no	no	no	no	yes	
34080.710nc	79.23	ENDF71x	ENDF/B-VII.1	2006	293.6	110550	4713	20.0	no	no	no	no	yes	
34080.711nc	79.23	ENDF71x	ENDF/B-VII.1	2006	600.0	110046	4641	20.0	no	no	no	no	yes	
34080.712nc	79.23	ENDF71x	ENDF/B-VII.1	2006	900.0	109871	4616	20.0	no	no	no	no	yes	
34080.713nc	79.23	ENDF71x	ENDF/B-VII.1	2006	1200.0	109633	4582	20.0	no	no	no	no	yes	
34080.714nc	79.23	ENDF71x	ENDF/B-VII.1	2006	2500.0	109010	4493	20.0	no	no	no	no	yes	
34080.715nc	79.23	ENDF71x	ENDF/B-VII.1	2006	0.1	113048	5070	20.0	no	no	no	no	yes	
34080.716nc	79.23	ENDF71x	ENDF/B-VII.1	2006	250.0	110669	4730	20.0	no	no	no	no	yes	
Se-82														
34082.80c	81.213	ENDF71x	ENDF/B-VII.1	2006	293.6	52999	3544	20.0	no	no	no	no	yes	
34082.81c	81.213	ENDF71x	ENDF/B-VII.1	2006	600.0	52740	3507	20.0	no	no	no	no	yes	
34082.82c	81.213	ENDF71x	ENDF/B-VII.1	2006	900.0	52664	3496	20.0	no	no	no	no	yes	
34082.83c	81.213	ENDF71x	ENDF/B-VII.1	2006	1200.0	52622	3490	20.0	no	no	no	no	yes	
34082.84c	81.213	ENDF71x	ENDF/B-VII.1	2006	2500.0	52313	3446	20.0	no	no	no	no	yes	
34082.85c	81.213	ENDF71x	ENDF/B-VII.1	2006	0.1	53840	3664	20.0	no	no	no	no	yes	
34082.86c	81.213	ENDF71x	ENDF/B-VII.1	2006	250.0	53028	3548	20.0	no	no	no	no	yes	
34082.70c	81.213	endf70c	ENDF/B-VII.0	2006	293.6	53217	3565	20	no	no	no	no	yes	
34082.71c	81.213	endf70c	ENDF/B-VII.0	2006	600	52958	3528	20	no	no	no	no	yes	
34082.72c	81.213	endf70c	ENDF/B-VII.0	2006	900	52882	3517	20	no	no	no	no	yes	
34082.73c	81.213	endf70c	ENDF/B-VII.0	2006	1200	52840	3511	20	no	no	no	no	yes	
34082.74c	81.213	endf70c	ENDF/B-VII.0	2006	2500	52531	3467	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
34082.710nc	81.213	ENDF71x	ENDF/B-VII.1	2006	293.6	52999	3544	20.0	no	no	no	no	yes	
34082.711nc	81.213	ENDF71x	ENDF/B-VII.1	2006	600.0	52740	3507	20.0	no	no	no	no	yes	
34082.712nc	81.213	ENDF71x	ENDF/B-VII.1	2006	900.0	52664	3496	20.0	no	no	no	no	yes	
34082.713nc	81.213	ENDF71x	ENDF/B-VII.1	2006	1200.0	52622	3490	20.0	no	no	no	no	yes	
34082.714nc	81.213	ENDF71x	ENDF/B-VII.1	2006	2500.0	52313	3446	20.0	no	no	no	no	yes	
34082.715nc	81.213	ENDF71x	ENDF/B-VII.1	2006	0.1	53840	3664	20.0	no	no	no	no	yes	
34082.716nc	81.213	ENDF71x	ENDF/B-VII.1	2006	250.0	53028	3548	20.0	no	no	no	no	yes	
				$Z = 35$, bromine										
Br-79														
35079.80c	78.2403	ENDF71x	ENDF/B-VII.1	2006	293.6	303946	29378	20.0	no	no	no	no	yes	
35079.81c	78.2403	ENDF71x	ENDF/B-VII.1	2006	600.0	284954	26665	20.0	no	no	no	no	yes	
35079.82c	78.2403	ENDF71x	ENDF/B-VII.1	2006	900.0	274448	25164	20.0	no	no	no	no	yes	
35079.83c	78.2403	ENDF71x	ENDF/B-VII.1	2006	1200.0	266432	24019	20.0	no	no	no	no	yes	
35079.84c	78.2403	ENDF71x	ENDF/B-VII.1	2006	2500.0	246301	21143	20.0	no	no	no	no	yes	
35079.85c	78.2403	ENDF71x	ENDF/B-VII.1	2006	0.1	382452	40593	20.0	no	no	no	no	yes	
35079.86c	78.2403	ENDF71x	ENDF/B-VII.1	2006	250.0	307657	29908	20.0	no	no	no	no	yes	
35079.70c	78.2403	endf70c	ENDF/B-VII.0	2006	293.6	304182	29414	20	no	no	no	no	yes	
35079.71c	78.2403	endf70c	ENDF/B-VII.0	2006	600	285190	26701	20	no	no	no	no	yes	
35079.72c	78.2403	endf70c	ENDF/B-VII.0	2006	900	274684	25200	20	no	no	no	no	yes	
35079.73c	78.2403	endf70c	ENDF/B-VII.0	2006	1200	266668	24055	20	no	no	no	no	yes	
35079.74c	78.2403	endf70c	ENDF/B-VII.0	2006	2500	246537	21179	20	no	no	no	no	yes	
35079.55c	78.2404	misc5xs	LANL/T	1982	293.6	10431	1589	20	no	no	no	no	no	7 9
35079.710nc	78.2403	ENDF71x	ENDF/B-VII.1	2006	293.6	303946	29378	20.0	no	no	no	no	yes	
35079.711nc	78.2403	ENDF71x	ENDF/B-VII.1	2006	600.0	284954	26665	20.0	no	no	no	no	yes	

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
35079.712nc	78.2403	ENDF71x	ENDF/B-VII.1	2006	900.0	274448	25164	20.0	no	no	no	no	yes	
35079.713nc	78.2403	ENDF71x	ENDF/B-VII.1	2006	1200.0	266432	24019	20.0	no	no	no	no	yes	
35079.714nc	78.2403	ENDF71x	ENDF/B-VII.1	2006	2500.0	246301	21143	20.0	no	no	no	no	yes	
35079.715nc	78.2403	ENDF71x	ENDF/B-VII.1	2006	0.1	382452	40593	20.0	no	no	no	no	yes	
35079.716nc	78.2403	ENDF71x	ENDF/B-VII.1	2006	250.0	307657	29908	20.0	no	no	no	no	yes	
Br-81														
35081.80c	80.2212	ENDF71x	ENDF/B-VII.1	2006	293.6	281805	28609	20.0	no	no	no	no	yes	
35081.81c	80.2212	ENDF71x	ENDF/B-VII.1	2006	600.0	270375	26976	20.0	no	no	no	no	yes	
35081.82c	80.2212	ENDF71x	ENDF/B-VII.1	2006	900.0	263745	26029	20.0	no	no	no	no	yes	
35081.83c	80.2212	ENDF71x	ENDF/B-VII.1	2006	1200.0	258062	25217	20.0	no	no	no	no	yes	
35081.84c	80.2212	ENDF71x	ENDF/B-VII.1	2006	2500.0	243166	23089	20.0	no	no	no	no	yes	
35081.85c	80.2212	ENDF71x	ENDF/B-VII.1	2006	0.1	345353	37687	20.0	no	no	no	no	yes	
35081.86c	80.2212	ENDF71x	ENDF/B-VII.1	2006	250.0	284592	29007	20.0	no	no	no	no	yes	
35081.70c	80.2212	endf70c	ENDF/B-VII.0	2006	293.6	281979	28636	20	no	no	no	no	yes	
35081.71c	80.2212	endf70c	ENDF/B-VII.0	2006	600	270549	27003	20	no	no	no	no	yes	
35081.72c	80.2212	endf70c	ENDF/B-VII.0	2006	900	263919	26056	20	no	no	no	no	yes	
35081.73c	80.2212	endf70c	ENDF/B-VII.0	2006	1200	258236	25244	20	no	no	no	no	yes	
35081.74c	80.2212	endf70c	ENDF/B-VII.0	2006	2500	243340	23116	20	no	no	no	no	yes	
35081.55c	80.2212	misc5xs	LANL/T	1982	293.6	5342	831	20	no	no	no	no	no	7 9
35081.710nc	80.2212	ENDF71x	ENDF/B-VII.1	2006	293.6	281805	28609	20.0	no	no	no	no	yes	
35081.711nc	80.2212	ENDF71x	ENDF/B-VII.1	2006	600.0	270375	26976	20.0	no	no	no	no	yes	
35081.712nc	80.2212	ENDF71x	ENDF/B-VII.1	2006	900.0	263745	26029	20.0	no	no	no	no	yes	
35081.713nc	80.2212	ENDF71x	ENDF/B-VII.1	2006	1200.0	258062	25217	20.0	no	no	no	no	yes	
35081.714nc	80.2212	ENDF71x	ENDF/B-VII.1	2006	2500.0	243166	23089	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
35081.715nc	80.2212	ENDF71x	ENDF/B-VII.1	2006	0.1	345353	37687	20.0	no	no	no	no	yes	
35081.716nc	80.2212	ENDF71x	ENDF/B-VII.1	2006	250.0	284592	29007	20.0	no	no	no	no	yes	
				Z = 36, krypton										
Kr-78														
36078.80c	77.25099	ENDF71x	ENDF/B-VII.1	2011	293.6	805225	2037	20.0	yes	no	yes	no	yes	
36078.81c	77.25099	ENDF71x	ENDF/B-VII.1	2011	600.0	804681	2003	20.0	yes	no	yes	no	yes	
36078.82c	77.25099	ENDF71x	ENDF/B-VII.1	2011	900.0	803881	1953	20.0	yes	no	yes	no	yes	
36078.83c	77.25099	ENDF71x	ENDF/B-VII.1	2011	1200.0	803433	1925	20.0	yes	no	yes	no	yes	
36078.84c	77.25099	ENDF71x	ENDF/B-VII.1	2011	2500.0	802457	1864	20.0	yes	no	yes	no	yes	
36078.85c	77.25099	ENDF71x	ENDF/B-VII.1	2011	0.1	806777	2134	20.0	yes	no	yes	no	yes	
36078.86c	77.25099	ENDF71x	ENDF/B-VII.1	2011	250.0	805337	2044	20.0	yes	no	yes	no	yes	
36078.70c	77.251	endf70c	ENDF/B-VII.0	2006	293.6	110012	3948	20	no	no	no	no	yes	
36078.71c	77.251	endf70c	ENDF/B-VII.0	2006	600	109766	3913	20	no	no	no	no	yes	
36078.72c	77.251	endf70c	ENDF/B-VII.0	2006	900	109361	3855	20	no	no	no	no	yes	
36078.73c	77.251	endf70c	ENDF/B-VII.0	2006	1200	109165	3827	20	no	no	no	no	yes	
36078.74c	77.251	endf70c	ENDF/B-VII.0	2006	2500	108759	3769	20	no	no	no	no	yes	
36078.66c	77.251	endf66a	ENDF/B-VI.0	1978	293.6	27045	2221	20	no	no	no	no	no	
36078.50c	77.251	rmccsa	ENDF/B-V.0	1978	293.6	9057	939	20	no	no	no	no	no	
36078.710nc	77.25099	ENDF71x	ENDF/B-VII.1	2011	293.6	805225	2037	20.0	yes	no	yes	no	yes	
36078.711nc	77.25099	ENDF71x	ENDF/B-VII.1	2011	600.0	804681	2003	20.0	yes	no	yes	no	yes	
36078.712nc	77.25099	ENDF71x	ENDF/B-VII.1	2011	900.0	803881	1953	20.0	yes	no	yes	no	yes	
36078.713nc	77.25099	ENDF71x	ENDF/B-VII.1	2011	1200.0	803433	1925	20.0	yes	no	yes	no	yes	
36078.714nc	77.25099	ENDF71x	ENDF/B-VII.1	2011	2500.0	802457	1864	20.0	yes	no	yes	no	yes	
36078.715nc	77.25099	ENDF71x	ENDF/B-VII.1	2011	0.1	806777	2134	20.0	yes	no	yes	no	yes	
36078.716nc	77.25099	ENDF71x	ENDF/B-VII.1	2011	250.0	805337	2044	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
Kr-80														
36080.80c	79.2299	ENDF71x	ENDF/B-VII.1	2006	293.6	109011	3963	20.0	no	no	no	no	yes	
36080.81c	79.2299	ENDF71x	ENDF/B-VII.1	2006	600.0	108850	3940	20.0	no	no	no	no	yes	
36080.82c	79.2299	ENDF71x	ENDF/B-VII.1	2006	900.0	108675	3915	20.0	no	no	no	no	yes	
36080.83c	79.2299	ENDF71x	ENDF/B-VII.1	2006	1200.0	108563	3899	20.0	no	no	no	no	yes	
36080.84c	79.2299	ENDF71x	ENDF/B-VII.1	2006	2500.0	108107	3834	20.0	no	no	no	no	yes	
36080.85c	79.2299	ENDF71x	ENDF/B-VII.1	2006	0.1	109872	4086	20.0	no	no	no	no	yes	
36080.86c	79.2299	ENDF71x	ENDF/B-VII.1	2006	250.0	109052	3969	20.0	no	no	no	no	yes	
36080.70c	79.2299	endf70c	ENDF/B-VII.0	2006	293.6	109117	4019	20	no	no	no	no	yes	
36080.71c	79.2299	endf70c	ENDF/B-VII.0	2006	600	108956	3996	20	no	no	no	no	yes	
36080.72c	79.2299	endf70c	ENDF/B-VII.0	2006	900	108781	3971	20	no	no	no	no	yes	
36080.73c	79.2299	endf70c	ENDF/B-VII.0	2006	1200	108669	3955	20	no	no	no	no	yes	
36080.74c	79.2299	endf70c	ENDF/B-VII.0	2006	2500	108213	3890	20	no	no	no	no	yes	
36080.66c	79.2298	endf66a	ENDF/B-VI.0	1978	293.6	26039	2361	20	no	no	no	no	no	
36080.50c	79.2298	rmccsa	ENDF/B-V.0	1978	293.6	10165	1108	20	no	no	no	no	no	
36080.710nc	79.2299	ENDF71x	ENDF/B-VII.1	2006	293.6	109011	3963	20.0	no	no	no	no	yes	
36080.711nc	79.2299	ENDF71x	ENDF/B-VII.1	2006	600.0	108850	3940	20.0	no	no	no	no	yes	
36080.712nc	79.2299	ENDF71x	ENDF/B-VII.1	2006	900.0	108675	3915	20.0	no	no	no	no	yes	
36080.713nc	79.2299	ENDF71x	ENDF/B-VII.1	2006	1200.0	108563	3899	20.0	no	no	no	no	yes	
36080.714nc	79.2299	ENDF71x	ENDF/B-VII.1	2006	2500.0	108107	3834	20.0	no	no	no	no	yes	
36080.715nc	79.2299	ENDF71x	ENDF/B-VII.1	2006	0.1	109872	4086	20.0	no	no	no	no	yes	
36080.716nc	79.2299	ENDF71x	ENDF/B-VII.1	2006	250.0	109052	3969	20.0	no	no	no	no	yes	
Kr-82														
36082.80c	81.2098	ENDF71x	ENDF/B-VII.1	2006	293.6	73979	2820	20.0	no	no	no	no	yes	
36082.81c	81.2098	ENDF71x	ENDF/B-VII.1	2006	600.0	73923	2812	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
36082.82c	81.2098	ENDF71x	ENDF/B-VII.1	2006	900.0	73832	2799	20.0	no	no	no	no	yes	
36082.83c	81.2098	ENDF71x	ENDF/B-VII.1	2006	1200.0	73854	2802	20.0	no	no	no	no	yes	
36082.84c	81.2098	ENDF71x	ENDF/B-VII.1	2006	2500.0	73575	2762	20.0	no	no	no	no	yes	
36082.85c	81.2098	ENDF71x	ENDF/B-VII.1	2006	0.1	74309	2867	20.0	no	no	no	no	yes	
36082.86c	81.2098	ENDF71x	ENDF/B-VII.1	2006	250.0	74000	2823	20.0	no	no	no	no	yes	
36082.70c	81.2098	endf70c	ENDF/B-VII.0	2006	293.6	70033	2875	20	no	no	no	no	no	
36082.71c	81.2098	endf70c	ENDF/B-VII.0	2006	600	69977	2867	20	no	no	no	no	no	
36082.72c	81.2098	endf70c	ENDF/B-VII.0	2006	900	69886	2854	20	no	no	no	no	no	
36082.73c	81.2098	endf70c	ENDF/B-VII.0	2006	1200	69909	2857	20	no	no	no	no	no	
36082.74c	81.2098	endf70c	ENDF/B-VII.0	2006	2500	69628	2817	20	no	no	no	no	no	
36082.66c	81.2098	endf66a	ENDF/B-VI.0	1978	293.6	19674	1296	20	no	no	no	no	no	
36082.50c	81.2098	rmccsa	ENDF/B-V.0	1978	293.6	7220	586	20	no	no	rmccsa	no	no	
36082.59c	81.2098	misc5xs	LANL/T	1982	293.6	7010	499	20	yes	no	no	no	no	7 8
36082.710nc	81.2098	ENDF71x	ENDF/B-VII.1	2006	293.6	73979	2820	20.0	no	no	no	no	yes	
36082.711nc	81.2098	ENDF71x	ENDF/B-VII.1	2006	600.0	73923	2812	20.0	no	no	no	no	yes	
36082.712nc	81.2098	ENDF71x	ENDF/B-VII.1	2006	900.0	73832	2799	20.0	no	no	no	no	yes	
36082.713nc	81.2098	ENDF71x	ENDF/B-VII.1	2006	1200.0	73854	2802	20.0	no	no	no	no	yes	
36082.714nc	81.2098	ENDF71x	ENDF/B-VII.1	2006	2500.0	73575	2762	20.0	no	no	no	no	yes	
36082.715nc	81.2098	ENDF71x	ENDF/B-VII.1	2006	0.1	74309	2867	20.0	no	no	no	no	yes	
36082.716nc	81.2098	ENDF71x	ENDF/B-VII.1	2006	250.0	74000	2823	20.0	no	no	no	no	yes	
Kr-83														
36083.80c	82.202	ENDF71x	ENDF/B-VII.1	2006	293.6	62042	1498	20.0	no	no	no	no	yes	
36083.81c	82.202	ENDF71x	ENDF/B-VII.1	2006	600.0	61826	1474	20.0	no	no	no	no	yes	
36083.82c	82.202	ENDF71x	ENDF/B-VII.1	2006	900.0	61763	1467	20.0	no	no	no	no	yes	

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
36083.83c	82.202	ENDF71x	ENDF/B-VII.1	2006	1200.0	61719	1462	20.0	no	no	no	no	yes	
36083.84c	82.202	ENDF71x	ENDF/B-VII.1	2006	2500.0	61214	1406	20.0	no	no	no	no	yes	
36083.85c	82.202	ENDF71x	ENDF/B-VII.1	2006	0.1	62221	1518	20.0	no	no	no	no	yes	
36083.86c	82.202	ENDF71x	ENDF/B-VII.1	2006	250.0	62042	1498	20.0	no	no	no	no	yes	
36083.70c	82.202	endf70c	ENDF/B-VII.0	2006	293.6	62286	1622	20	no	no	no	no	yes	
36083.71c	82.202	endf70c	ENDF/B-VII.0	2006	600	62070	1598	20	no	no	no	no	yes	
36083.72c	82.202	endf70c	ENDF/B-VII.0	2006	900	62007	1591	20	no	no	no	no	yes	
36083.73c	82.202	endf70c	ENDF/B-VII.0	2006	1200	61963	1586	20	no	no	no	no	yes	
36083.74c	82.202	endf70c	ENDF/B-VII.0	2006	2500	61458	1530	20	no	no	no	no	yes	
36083.66c	82.2018	endf66a	ENDF/B-VI.0	1978	293.6	21271	1760	20	no	no	no	no	no	
36083.50c	82.2018	rmccsa	ENDF/B-V.0	1978	293.6	8078	811	20	no	no	no	no	no	
36083.59c	82.2018	misc5xs	LANL/T	1982	293.6	8069	704	20	yes	no	no	no	no	7 8
36083.710nc	82.202	ENDF71x	ENDF/B-VII.1	2006	293.6	62042	1498	20.0	no	no	no	no	yes	
36083.711nc	82.202	ENDF71x	ENDF/B-VII.1	2006	600.0	61826	1474	20.0	no	no	no	no	yes	
36083.712nc	82.202	ENDF71x	ENDF/B-VII.1	2006	900.0	61763	1467	20.0	no	no	no	no	yes	
36083.713nc	82.202	ENDF71x	ENDF/B-VII.1	2006	1200.0	61719	1462	20.0	no	no	no	no	yes	
36083.714nc	82.202	ENDF71x	ENDF/B-VII.1	2006	2500.0	61214	1406	20.0	no	no	no	no	yes	
36083.715nc	82.202	ENDF71x	ENDF/B-VII.1	2006	0.1	62221	1518	20.0	no	no	no	no	yes	
36083.716nc	82.202	ENDF71x	ENDF/B-VII.1	2006	250.0	62042	1498	20.0	no	no	no	no	yes	
Kr-84														
36084.80c	83.1907	ENDF71x	ENDF/B-VII.1	2006	293.6	134114	11915	20.0	no	no	no	no	no	
36084.81c	83.1907	ENDF71x	ENDF/B-VII.1	2006	600.0	131700	11570	20.0	no	no	no	no	no	
36084.82c	83.1907	ENDF71x	ENDF/B-VII.1	2006	900.0	130564	11408	20.0	no	no	no	no	no	
36084.83c	83.1907	ENDF71x	ENDF/B-VII.1	2006	1200.0	129773	11295	20.0	no	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
36084.84c	83.1907	ENDF71x	ENDF/B-VII.1	2006	2500.0	127113	10915	20.0	no	no	no	no	no	
36084.85c	83.1907	ENDF71x	ENDF/B-VII.1	2006	0.1	141302	12942	20.0	no	no	no	no	no	
36084.86c	83.1907	ENDF71x	ENDF/B-VII.1	2006	250.0	134582	11982	20.0	no	no	no	no	no	
36084.70c	83.1907	endf70c	ENDF/B-VII.0	2006	293.6	134121	11916	20	no	no	no	no	no	
36084.71c	83.1907	endf70c	ENDF/B-VII.0	2006	600	131707	11571	20	no	no	no	no	no	
36084.72c	83.1907	endf70c	ENDF/B-VII.0	2006	900	130571	11409	20	no	no	no	no	no	
36084.73c	83.1907	endf70c	ENDF/B-VII.0	2006	1200	129780	11296	20	no	no	no	no	no	
36084.74c	83.1907	endf70c	ENDF/B-VII.0	2006	2500	127120	10916	20	no	no	no	no	no	
36084.66c	83.1906	endf66a	ENDF/B-VI.0	1978	293.6	24427	2098	20	no	no	no	no	no	
36084.50c	83.1906	rmccsa	ENDF/B-V.0	1978	293.6	9364	944	20	no	no	no	no	no	
36084.59c	83.1906	misc5xs	LANL/T	1982	293.6	10370	954	20	yes	no	no	no	no	7 8
36084.710nc	83.1907	ENDF71x	ENDF/B-VII.1	2006	293.6	134114	11915	20.0	no	no	no	no	no	
36084.711nc	83.1907	ENDF71x	ENDF/B-VII.1	2006	600.0	131700	11570	20.0	no	no	no	no	no	
36084.712nc	83.1907	ENDF71x	ENDF/B-VII.1	2006	900.0	130564	11408	20.0	no	no	no	no	no	
36084.713nc	83.1907	ENDF71x	ENDF/B-VII.1	2006	1200.0	129773	11295	20.0	no	no	no	no	no	
36084.714nc	83.1907	ENDF71x	ENDF/B-VII.1	2006	2500.0	127113	10915	20.0	no	no	no	no	no	
36084.715nc	83.1907	ENDF71x	ENDF/B-VII.1	2006	0.1	141302	12942	20.0	no	no	no	no	no	
36084.716nc	83.1907	ENDF71x	ENDF/B-VII.1	2006	250.0	134582	11982	20.0	no	no	no	no	no	
Kr-85														
36085.80c	84.1831	ENDF71x	ENDF/B-VII.1	2006	293.6	188902	2740	20.0	yes	no	yes	no	yes	
36085.81c	84.1831	ENDF71x	ENDF/B-VII.1	2006	600.0	187854	2609	20.0	yes	no	yes	no	yes	
36085.82c	84.1831	ENDF71x	ENDF/B-VII.1	2006	900.0	187342	2545	20.0	yes	no	yes	no	yes	
36085.83c	84.1831	ENDF71x	ENDF/B-VII.1	2006	1200.0	187086	2513	20.0	yes	no	yes	no	yes	
36085.84c	84.1831	ENDF71x	ENDF/B-VII.1	2006	2500.0	185974	2374	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
36085.85c	84.1831	ENDF71x	ENDF/B-VII.1	2006	0.1	192646	3208	20.0	yes	no	yes	no	yes	
36085.86c	84.1831	ENDF71x	ENDF/B-VII.1	2006	250.0	189110	2766	20.0	yes	no	yes	no	yes	
36085.70c	84.1831	endf70c	ENDF/B-VII.0	2006	293.6	189808	2831	20	yes	no	yes	no	yes	
36085.71c	84.1831	endf70c	ENDF/B-VII.0	2006	600	188760	2700	20	yes	no	yes	no	yes	
36085.72c	84.1831	endf70c	ENDF/B-VII.0	2006	900	188248	2636	20	yes	no	yes	no	yes	
36085.73c	84.1831	endf70c	ENDF/B-VII.0	2006	1200	187992	2604	20	yes	no	yes	no	yes	
36085.74c	84.1831	endf70c	ENDF/B-VII.0	2006	2500	186880	2465	20	yes	no	yes	no	yes	
36085.710nc	84.1831	ENDF71x	ENDF/B-VII.1	2006	293.6	188902	2740	20.0	yes	no	yes	no	yes	
36085.711nc	84.1831	ENDF71x	ENDF/B-VII.1	2006	600.0	187854	2609	20.0	yes	no	yes	no	yes	
36085.712nc	84.1831	ENDF71x	ENDF/B-VII.1	2006	900.0	187342	2545	20.0	yes	no	yes	no	yes	
36085.713nc	84.1831	ENDF71x	ENDF/B-VII.1	2006	1200.0	187086	2513	20.0	yes	no	yes	no	yes	
36085.714nc	84.1831	ENDF71x	ENDF/B-VII.1	2006	2500.0	185974	2374	20.0	yes	no	yes	no	yes	
36085.715nc	84.1831	ENDF71x	ENDF/B-VII.1	2006	0.1	192646	3208	20.0	yes	no	yes	no	yes	
36085.716nc	84.1831	ENDF71x	ENDF/B-VII.1	2006	250.0	189110	2766	20.0	yes	no	yes	no	yes	
Kr-86														
36086.80c	85.1726	ENDF71x	ENDF/B-VII.1	2006	293.6	137842	14731	20.0	no	no	no	no	no	
36086.81c	85.1726	ENDF71x	ENDF/B-VII.1	2006	600.0	135809	14441	20.0	no	no	no	no	no	
36086.82c	85.1726	ENDF71x	ENDF/B-VII.1	2006	900.0	134696	14282	20.0	no	no	no	no	no	
36086.83c	85.1726	ENDF71x	ENDF/B-VII.1	2006	1200.0	133835	14159	20.0	no	no	no	no	no	
36086.84c	85.1726	ENDF71x	ENDF/B-VII.1	2006	2500.0	130469	13678	20.0	no	no	no	no	no	
36086.85c	85.1726	ENDF71x	ENDF/B-VII.1	2006	0.1	142811	15441	20.0	no	no	no	no	no	
36086.86c	85.1726	ENDF71x	ENDF/B-VII.1	2006	250.0	138175	14779	20.0	no	no	no	no	no	
36086.70c	85.1726	endf70c	ENDF/B-VII.0	2006	293.6	137842	14731	20	no	no	no	no	no	
36086.71c	85.1726	endf70c	ENDF/B-VII.0	2006	600	135809	14441	20	no	no	no	no	no	
36086.72c	85.1726	endf70c	ENDF/B-VII.0	2006	900	134696	14282	20	no	no	no	no	no	

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
36086.73c	85.1726	endf70c	ENDF/B-VII.0	2006	1200	133835	14159	20	no	no	no	no	no	
36086.74c	85.1726	endf70c	ENDF/B-VII.0	2006	2500	130469	13678	20	no	no	no	no	no	
36086.66c	85.1726	endf66a	ENDF/B-VI.0	1978	293.6	22203	1425	20	no	no	no	no	no	
36086.50c	85.1726	rmccsa	ENDF/B-V.0	1975	293.6	10416	741	20	no	no	no	no	no	
36086.59c	85.1726	misc5xs	LANL/T	1982	293.6	8740	551	20	yes	no	no	no	no	7
	8													
36086.710nc	85.1726	ENDF71x	ENDF/B-VII.1	2006	293.6	137842	14731	20.0	no	no	no	no	no	
36086.711nc	85.1726	ENDF71x	ENDF/B-VII.1	2006	600.0	135809	14441	20.0	no	no	no	no	no	
36086.712nc	85.1726	ENDF71x	ENDF/B-VII.1	2006	900.0	134696	14282	20.0	no	no	no	no	no	
36086.713nc	85.1726	ENDF71x	ENDF/B-VII.1	2006	1200.0	133835	14159	20.0	no	no	no	no	no	
36086.714nc	85.1726	ENDF71x	ENDF/B-VII.1	2006	2500.0	130469	13678	20.0	no	no	no	no	no	
36086.715nc	85.1726	ENDF71x	ENDF/B-VII.1	2006	0.1	142811	15441	20.0	no	no	no	no	no	
36086.716nc	85.1726	ENDF71x	ENDF/B-VII.1	2006	250.0	138175	14779	20.0	no	no	no	no	no	
			Z = 37, rubidium											
Rb-85														
37085.80c	84.1824	ENDF71x	ENDF/B-VII.1	2006	293.6	198052	21585	20.0	no	no	no	no	yes	
37085.81c	84.1824	ENDF71x	ENDF/B-VII.1	2006	600.0	188514	20222	20.0	no	no	no	no	yes	
37085.82c	84.1824	ENDF71x	ENDF/B-VII.1	2006	900.0	182849	19413	20.0	no	no	no	no	yes	
37085.83c	84.1824	ENDF71x	ENDF/B-VII.1	2006	1200.0	179056	18871	20.0	no	no	no	no	yes	
37085.84c	84.1824	ENDF71x	ENDF/B-VII.1	2006	2500.0	168239	17326	20.0	no	no	no	no	yes	
37085.85c	84.1824	ENDF71x	ENDF/B-VII.1	2006	0.1	249364	28915	20.0	no	no	no	no	yes	
37085.86c	84.1824	ENDF71x	ENDF/B-VII.1	2006	250.0	199698	21820	20.0	no	no	no	no	yes	
37085.70c	84.1824	endf70c	ENDF/B-VII.0	2006	293.6	198114	21611	20	no	no	no	no	yes	
37085.71c	84.1824	endf70c	ENDF/B-VII.0	2006	600	188576	20248	20	no	no	no	no	yes	
37085.72c	84.1824	endf70c	ENDF/B-VII.0	2006	900	182911	19439	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
37085.73c	84.1824	endf70c	ENDF/B-VII.0	2006	1200	179118	18897	20	no	no	no	no	yes	
37085.74c	84.1824	endf70c	ENDF/B-VII.0	2006	2500	168301	17352	20	no	no	no	no	yes	
37085.66c	84.1824	endf66a	ENDF/B-VI.0	1979	293.6	179843	15316	20	no	no	no	no	no	
37085.55c	84.1824	misc5xs	LANL/T	1982	293.6	27304	4507	20	no	no	no	no	no	7
	9													
37085.710nc	84.1824	ENDF71x	ENDF/B-VII.1	2006	293.6	198052	21585	20.0	no	no	no	no	yes	
37085.711nc	84.1824	ENDF71x	ENDF/B-VII.1	2006	600.0	188514	20222	20.0	no	no	no	no	yes	
37085.712nc	84.1824	ENDF71x	ENDF/B-VII.1	2006	900.0	182849	19413	20.0	no	no	no	no	yes	
37085.713nc	84.1824	ENDF71x	ENDF/B-VII.1	2006	1200.0	179056	18871	20.0	no	no	no	no	yes	
37085.714nc	84.1824	ENDF71x	ENDF/B-VII.1	2006	2500.0	168239	17326	20.0	no	no	no	no	yes	
37085.715nc	84.1824	ENDF71x	ENDF/B-VII.1	2006	0.1	249364	28915	20.0	no	no	no	no	yes	
37085.716nc	84.1824	ENDF71x	ENDF/B-VII.1	2006	250.0	199698	21820	20.0	no	no	no	no	yes	
Rb-86														
37086.80c	85.1731	ENDF71x	ENDF/B-VII.1	2006	293.6	260174	11675	20.0	yes	no	yes	no	yes	
37086.81c	85.1731	ENDF71x	ENDF/B-VII.1	2006	600.0	253958	10898	20.0	yes	no	yes	no	yes	
37086.82c	85.1731	ENDF71x	ENDF/B-VII.1	2006	900.0	250654	10485	20.0	yes	no	yes	no	yes	
37086.83c	85.1731	ENDF71x	ENDF/B-VII.1	2006	1200.0	248246	10184	20.0	yes	no	yes	no	yes	
37086.84c	85.1731	ENDF71x	ENDF/B-VII.1	2006	2500.0	241854	9385	20.0	yes	no	yes	no	yes	
37086.85c	85.1731	ENDF71x	ENDF/B-VII.1	2006	0.1	289783	15376	20.0	yes	no	yes	no	yes	
37086.86c	85.1731	ENDF71x	ENDF/B-VII.1	2006	250.0	261286	11814	20.0	yes	no	yes	no	yes	
37086.70c	85.1731	endf70c	ENDF/B-VII.0	2006	293.6	260560	11769	20	yes	no	yes	no	yes	
37086.71c	85.1731	endf70c	ENDF/B-VII.0	2006	600	254336	10991	20	yes	no	yes	no	yes	
37086.72c	85.1731	endf70c	ENDF/B-VII.0	2006	900	251024	10577	20	yes	no	yes	no	yes	
37086.73c	85.1731	endf70c	ENDF/B-VII.0	2006	1200	248600	10274	20	yes	no	yes	no	yes	
37086.74c	85.1731	endf70c	ENDF/B-VII.0	2006	2500	242224	9477	20	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
37086.710nc	85.1731	ENDF71x	ENDF/B-VII.1	2006	293.6	260174	11675	20.0	yes	no	yes	no	yes	
37086.711nc	85.1731	ENDF71x	ENDF/B-VII.1	2006	600.0	253958	10898	20.0	yes	no	yes	no	yes	
37086.712nc	85.1731	ENDF71x	ENDF/B-VII.1	2006	900.0	250654	10485	20.0	yes	no	yes	no	yes	
37086.713nc	85.1731	ENDF71x	ENDF/B-VII.1	2006	1200.0	248246	10184	20.0	yes	no	yes	no	yes	
37086.714nc	85.1731	ENDF71x	ENDF/B-VII.1	2006	2500.0	241854	9385	20.0	yes	no	yes	no	yes	
37086.715nc	85.1731	ENDF71x	ENDF/B-VII.1	2006	0.1	289783	15376	20.0	yes	no	yes	no	yes	
37086.716nc	85.1731	ENDF71x	ENDF/B-VII.1	2006	250.0	261286	11814	20.0	yes	no	yes	no	yes	
Rb-87														
37087.80c	86.1626	ENDF71x	ENDF/B-VII.1	2006	293.6	71955	4863	20.0	no	no	no	no	yes	
37087.81c	86.1626	ENDF71x	ENDF/B-VII.1	2006	600.0	71562	4807	20.0	no	no	no	no	yes	
37087.82c	86.1626	ENDF71x	ENDF/B-VII.1	2006	900.0	71394	4783	20.0	no	no	no	no	yes	
37087.83c	86.1626	ENDF71x	ENDF/B-VII.1	2006	1200.0	71171	4751	20.0	no	no	no	no	yes	
37087.84c	86.1626	ENDF71x	ENDF/B-VII.1	2006	2500.0	70479	4652	20.0	no	no	no	no	yes	
37087.85c	86.1626	ENDF71x	ENDF/B-VII.1	2006	0.1	74117	5172	20.0	no	no	no	no	yes	
37087.86c	86.1626	ENDF71x	ENDF/B-VII.1	2006	250.0	72017	4872	20.0	no	no	no	no	yes	
37087.70c	86.1626	endf70c	ENDF/B-VII.0	2006	293.6	72015	4879	20	no	no	no	no	yes	
37087.71c	86.1626	endf70c	ENDF/B-VII.0	2006	600	71624	4823	20	no	no	no	no	yes	
37087.72c	86.1626	endf70c	ENDF/B-VII.0	2006	900	71455	4799	20	no	no	no	no	yes	
37087.73c	86.1626	endf70c	ENDF/B-VII.0	2006	1200	71233	4767	20	no	no	no	no	yes	
37087.74c	86.1626	endf70c	ENDF/B-VII.0	2006	2500	70538	4668	20	no	no	no	no	yes	
37087.66c	86.1624	endf66b	ENDF/B-VI.0	1979	293.6	42718	3637	20	no	no	no	no	no	
37087.55c	86.1626	misc5xs	LANL/T	1982	293.6	8409	1373	20	no	no	no	no	no	7 9
37087.710nc	86.1626	ENDF71x	ENDF/B-VII.1	2006	293.6	71955	4863	20.0	no	no	no	no	yes	
37087.711nc	86.1626	ENDF71x	ENDF/B-VII.1	2006	600.0	71562	4807	20.0	no	no	no	no	yes	

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
37087.712nc	86.1626	ENDF71x	ENDF/B-VII.1	2006	900.0	71394	4783	20.0	no	no	no	no	yes	
37087.713nc	86.1626	ENDF71x	ENDF/B-VII.1	2006	1200.0	71171	4751	20.0	no	no	no	no	yes	
37087.714nc	86.1626	ENDF71x	ENDF/B-VII.1	2006	2500.0	70479	4652	20.0	no	no	no	no	yes	
37087.715nc	86.1626	ENDF71x	ENDF/B-VII.1	2006	0.1	74117	5172	20.0	no	no	no	no	yes	
37087.716nc	86.1626	ENDF71x	ENDF/B-VII.1	2006	250.0	72017	4872	20.0	no	no	no	no	yes	
				Z = 38, strontium										
Sr-84														
38084.80c	83.1926	ENDF71x	ENDF/B-VII.1	2006	293.6	170297	4076	20.0	yes	no	yes	no	yes	
38084.81c	83.1926	ENDF71x	ENDF/B-VII.1	2006	600.0	169072	3923	20.0	yes	no	yes	no	yes	
38084.82c	83.1926	ENDF71x	ENDF/B-VII.1	2006	900.0	168369	3835	20.0	yes	no	yes	no	yes	
38084.83c	83.1926	ENDF71x	ENDF/B-VII.1	2006	1200.0	167968	3785	20.0	yes	no	yes	no	yes	
38084.84c	83.1926	ENDF71x	ENDF/B-VII.1	2006	2500.0	166408	3590	20.0	yes	no	yes	no	yes	
38084.85c	83.1926	ENDF71x	ENDF/B-VII.1	2006	0.1	175640	4744	20.0	yes	no	yes	no	yes	
38084.86c	83.1926	ENDF71x	ENDF/B-VII.1	2006	250.0	170656	4121	20.0	yes	no	yes	no	yes	
38084.70c	83.1926	endf70c	ENDF/B-VII.0	2006	293.6	170817	4158	20	yes	no	yes	no	yes	
38084.71c	83.1926	endf70c	ENDF/B-VII.0	2006	600	169592	4005	20	yes	no	yes	no	yes	
38084.72c	83.1926	endf70c	ENDF/B-VII.0	2006	900	168889	3917	20	yes	no	yes	no	yes	
38084.73c	83.1926	endf70c	ENDF/B-VII.0	2006	1200	168488	3867	20	yes	no	yes	no	yes	
38084.74c	83.1926	endf70c	ENDF/B-VII.0	2006	2500	166928	3672	20	yes	no	yes	no	yes	
38084.710nc	83.1926	ENDF71x	ENDF/B-VII.1	2006	293.6	170297	4076	20.0	yes	no	yes	no	yes	
38084.711nc	83.1926	ENDF71x	ENDF/B-VII.1	2006	600.0	169072	3923	20.0	yes	no	yes	no	yes	
38084.712nc	83.1926	ENDF71x	ENDF/B-VII.1	2006	900.0	168369	3835	20.0	yes	no	yes	no	yes	
38084.713nc	83.1926	ENDF71x	ENDF/B-VII.1	2006	1200.0	167968	3785	20.0	yes	no	yes	no	yes	
38084.714nc	83.1926	ENDF71x	ENDF/B-VII.1	2006	2500.0	166408	3590	20.0	yes	no	yes	no	yes	
38084.715nc	83.1926	ENDF71x	ENDF/B-VII.1	2006	0.1	175640	4744	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
38084.716nc	83.1926	ENDF71x	ENDF/B-VII.1	2006	250.0	170656	4121	20.0	yes	no	yes	no	yes	
Sr-86														
38086.80c	85.1713	ENDF71x	ENDF/B-VII.1	2006	293.6	91296	7873	20.0	no	no	no	no	yes	
38086.81c	85.1713	ENDF71x	ENDF/B-VII.1	2006	600.0	90170	7712	20.0	no	no	no	no	yes	
38086.82c	85.1713	ENDF71x	ENDF/B-VII.1	2006	900.0	89414	7604	20.0	no	no	no	no	yes	
38086.83c	85.1713	ENDF71x	ENDF/B-VII.1	2006	1200.0	88883	7528	20.0	no	no	no	no	yes	
38086.84c	85.1713	ENDF71x	ENDF/B-VII.1	2006	2500.0	87825	7377	20.0	no	no	no	no	yes	
38086.85c	85.1713	ENDF71x	ENDF/B-VII.1	2006	0.1	101154	9281	20.0	no	no	no	no	yes	
38086.86c	85.1713	ENDF71x	ENDF/B-VII.1	2006	250.0	91684	7928	20.0	no	no	no	no	yes	
38086.70c	85.1713	endf70c	ENDF/B-VII.0	2006	293.6	91682	7912	20	no	no	no	no	yes	
38086.71c	85.1713	endf70c	ENDF/B-VII.0	2006	600	90556	7751	20	no	no	no	no	yes	
38086.72c	85.1713	endf70c	ENDF/B-VII.0	2006	900	89800	7643	20	no	no	no	no	yes	
38086.73c	85.1713	endf70c	ENDF/B-VII.0	2006	1200	89268	7567	20	no	no	no	no	yes	
38086.74c	85.1713	endf70c	ENDF/B-VII.0	2006	2500	88210	7416	20	no	no	no	no	yes	
38086.710nc	85.1713	ENDF71x	ENDF/B-VII.1	2006	293.6	91296	7873	20.0	no	no	no	no	yes	
38086.711nc	85.1713	ENDF71x	ENDF/B-VII.1	2006	600.0	90170	7712	20.0	no	no	no	no	yes	
38086.712nc	85.1713	ENDF71x	ENDF/B-VII.1	2006	900.0	89414	7604	20.0	no	no	no	no	yes	
38086.713nc	85.1713	ENDF71x	ENDF/B-VII.1	2006	1200.0	88883	7528	20.0	no	no	no	no	yes	
38086.714nc	85.1713	ENDF71x	ENDF/B-VII.1	2006	2500.0	87825	7377	20.0	no	no	no	no	yes	
38086.715nc	85.1713	ENDF71x	ENDF/B-VII.1	2006	0.1	101154	9281	20.0	no	no	no	no	yes	
38086.716nc	85.1713	ENDF71x	ENDF/B-VII.1	2006	250.0	91684	7928	20.0	no	no	no	no	yes	
Sr-87														
38087.80c	86.1623	ENDF71x	ENDF/B-VII.1	2006	293.6	164965	18551	20.0	no	no	no	no	yes	
38087.81c	86.1623	ENDF71x	ENDF/B-VII.1	2006	600.0	157309	17457	20.0	no	no	no	no	yes	
38087.82c	86.1623	ENDF71x	ENDF/B-VII.1	2006	900.0	153164	16865	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
38087.83c	86.1623	ENDF71x	ENDF/B-VII.1	2006	1200.0	150091	16426	20.0	no	no	no	no	yes	
38087.84c	86.1623	ENDF71x	ENDF/B-VII.1	2006	2500.0	141151	15149	20.0	no	no	no	no	yes	
38087.85c	86.1623	ENDF71x	ENDF/B-VII.1	2006	0.1	205313	24315	20.0	no	no	no	no	yes	
38087.86c	86.1623	ENDF71x	ENDF/B-VII.1	2006	250.0	166659	18793	20.0	no	no	no	no	yes	
38087.70c	86.1623	endf70c	ENDF/B-VII.0	2006	293.6	165096	18573	20	no	no	no	no	yes	
38087.71c	86.1623	endf70c	ENDF/B-VII.0	2006	600	157440	17479	20	no	no	no	no	yes	
38087.72c	86.1623	endf70c	ENDF/B-VII.0	2006	900	153295	16887	20	no	no	no	no	yes	
38087.73c	86.1623	endf70c	ENDF/B-VII.0	2006	1200	150222	16448	20	no	no	no	no	yes	
38087.74c	86.1623	endf70c	ENDF/B-VII.0	2006	2500	141282	15171	20	no	no	no	no	yes	
38087.710nc	86.1623	ENDF71x	ENDF/B-VII.1	2006	293.6	164965	18551	20.0	no	no	no	no	yes	
38087.711nc	86.1623	ENDF71x	ENDF/B-VII.1	2006	600.0	157309	17457	20.0	no	no	no	no	yes	
38087.712nc	86.1623	ENDF71x	ENDF/B-VII.1	2006	900.0	153164	16865	20.0	no	no	no	no	yes	
38087.713nc	86.1623	ENDF71x	ENDF/B-VII.1	2006	1200.0	150091	16426	20.0	no	no	no	no	yes	
38087.714nc	86.1623	ENDF71x	ENDF/B-VII.1	2006	2500.0	141151	15149	20.0	no	no	no	no	yes	
38087.715nc	86.1623	ENDF71x	ENDF/B-VII.1	2006	0.1	205313	24315	20.0	no	no	no	no	yes	
38087.716nc	86.1623	ENDF71x	ENDF/B-VII.1	2006	250.0	166659	18793	20.0	no	no	no	no	yes	
Sr-88														
38088.80c	87.15	ENDF71x	ENDF/B-VII.1	2006	293.6	135371	9495	20.0	no	no	no	no	no	
38088.81c	87.15	ENDF71x	ENDF/B-VII.1	2006	600.0	133598	9242	20.0	no	no	no	no	no	
38088.82c	87.15	ENDF71x	ENDF/B-VII.1	2006	900.0	132108	9029	20.0	no	no	no	no	no	
38088.83c	87.15	ENDF71x	ENDF/B-VII.1	2006	1200.0	131310	8915	20.0	no	no	no	no	no	
38088.84c	87.15	ENDF71x	ENDF/B-VII.1	2006	2500.0	128593	8527	20.0	no	no	no	no	no	
38088.85c	87.15	ENDF71x	ENDF/B-VII.1	2006	0.1	149852	11564	20.0	no	no	no	no	no	
38088.86c	87.15	ENDF71x	ENDF/B-VII.1	2006	250.0	135833	9561	20.0	no	no	no	no	no	
38088.70c	87.15	endf70c	ENDF/B-VII.0	2006	293.6	135476	9510	20	no	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
38088.71c	87.15	endf70c	ENDF/B-VII.0	2006	600	133703	9257	20	no	no	no	no	no	
38088.72c	87.15	endf70c	ENDF/B-VII.0	2006	900	132213	9044	20	no	no	no	no	no	
38088.73c	87.15	endf70c	ENDF/B-VII.0	2006	1200	131415	8930	20	no	no	no	no	no	
38088.74c	87.15	endf70c	ENDF/B-VII.0	2006	2500	128698	8542	20	no	no	no	no	no	
38088.710nc	87.15	ENDF71x	ENDF/B-VII.1	2006	293.6	135371	9495	20.0	no	no	no	no	no	
38088.711nc	87.15	ENDF71x	ENDF/B-VII.1	2006	600.0	133598	9242	20.0	no	no	no	no	no	
38088.712nc	87.15	ENDF71x	ENDF/B-VII.1	2006	900.0	132108	9029	20.0	no	no	no	no	no	
38088.713nc	87.15	ENDF71x	ENDF/B-VII.1	2006	1200.0	131310	8915	20.0	no	no	no	no	no	
38088.714nc	87.15	ENDF71x	ENDF/B-VII.1	2006	2500.0	128593	8527	20.0	no	no	no	no	no	
38088.715nc	87.15	ENDF71x	ENDF/B-VII.1	2006	0.1	149852	11564	20.0	no	no	no	no	no	
38088.716nc	87.15	ENDF71x	ENDF/B-VII.1	2006	250.0	135833	9561	20.0	no	no	no	no	no	
Sr-89														
38089.80c	88.144	ENDF71x	ENDF/B-VII.1	2006	293.6	73084	678	20.0	no	no	no	no	yes	
38089.81c	88.144	ENDF71x	ENDF/B-VII.1	2006	600.0	73043	672	20.0	no	no	no	no	yes	
38089.82c	88.144	ENDF71x	ENDF/B-VII.1	2006	900.0	73063	675	20.0	no	no	no	no	yes	
38089.83c	88.144	ENDF71x	ENDF/B-VII.1	2006	1200.0	73079	677	20.0	no	no	no	no	yes	
38089.84c	88.144	ENDF71x	ENDF/B-VII.1	2006	2500.0	73036	671	20.0	no	no	no	no	yes	
38089.85c	88.144	ENDF71x	ENDF/B-VII.1	2006	0.1	73106	681	20.0	no	no	no	no	yes	
38089.86c	88.144	ENDF71x	ENDF/B-VII.1	2006	250.0	73064	675	20.0	no	no	no	no	yes	
38089.70c	88.144	endf70c	ENDF/B-VII.0	2006	293.6	73085	710	20	no	no	no	no	yes	
38089.71c	88.144	endf70c	ENDF/B-VII.0	2006	600	73044	704	20	no	no	no	no	yes	
38089.72c	88.144	endf70c	ENDF/B-VII.0	2006	900	73064	707	20	no	no	no	no	yes	
38089.73c	88.144	endf70c	ENDF/B-VII.0	2006	1200	73080	709	20	no	no	no	no	yes	
38089.74c	88.144	endf70c	ENDF/B-VII.0	2006	2500	73037	703	20	no	no	no	no	yes	
38089.710nc	88.144	ENDF71x	ENDF/B-VII.1	2006	293.6	73084	678	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
38089.711nc	88.144	ENDF71x	ENDF/B-VII.1	2006	600.0	73043	672	20.0	no	no	no	no	yes	
38089.712nc	88.144	ENDF71x	ENDF/B-VII.1	2006	900.0	73063	675	20.0	no	no	no	no	yes	
38089.713nc	88.144	ENDF71x	ENDF/B-VII.1	2006	1200.0	73079	677	20.0	no	no	no	no	yes	
38089.714nc	88.144	ENDF71x	ENDF/B-VII.1	2006	2500.0	73036	671	20.0	no	no	no	no	yes	
38089.715nc	88.144	ENDF71x	ENDF/B-VII.1	2006	0.1	73106	681	20.0	no	no	no	no	yes	
38089.716nc	88.144	ENDF71x	ENDF/B-VII.1	2006	250.0	73064	675	20.0	no	no	no	no	yes	
Sr-90														
38090.80c	89.1353	ENDF71x	ENDF/B-VII.1	2006	293.6	46928	2195	20.0	no	no	no	no	yes	
38090.81c	89.1353	ENDF71x	ENDF/B-VII.1	2006	600.0	46901	2191	20.0	no	no	no	no	yes	
38090.82c	89.1353	ENDF71x	ENDF/B-VII.1	2006	900.0	46915	2193	20.0	no	no	no	no	yes	
38090.83c	89.1353	ENDF71x	ENDF/B-VII.1	2006	1200.0	46935	2196	20.0	no	no	no	no	yes	
38090.84c	89.1353	ENDF71x	ENDF/B-VII.1	2006	2500.0	46892	2190	20.0	no	no	no	no	yes	
38090.85c	89.1353	ENDF71x	ENDF/B-VII.1	2006	0.1	46964	2200	20.0	no	no	no	no	yes	
38090.86c	89.1353	ENDF71x	ENDF/B-VII.1	2006	250.0	46920	2194	20.0	no	no	no	no	yes	
38090.70c	89.1353	endf70c	ENDF/B-VII.0	2006	293.6	46951	2208	20	no	no	no	no	yes	
38090.71c	89.1353	endf70c	ENDF/B-VII.0	2006	600	46924	2204	20	no	no	no	no	yes	
38090.72c	89.1353	endf70c	ENDF/B-VII.0	2006	900	46938	2206	20	no	no	no	no	yes	
38090.73c	89.1353	endf70c	ENDF/B-VII.0	2006	1200	46958	2209	20	no	no	no	no	yes	
38090.74c	89.1353	endf70c	ENDF/B-VII.0	2006	2500	46915	2203	20	no	no	no	no	yes	
38090.710nc	89.1353	ENDF71x	ENDF/B-VII.1	2006	293.6	46928	2195	20.0	no	no	no	no	yes	
38090.711nc	89.1353	ENDF71x	ENDF/B-VII.1	2006	600.0	46901	2191	20.0	no	no	no	no	yes	
38090.712nc	89.1353	ENDF71x	ENDF/B-VII.1	2006	900.0	46915	2193	20.0	no	no	no	no	yes	
38090.713nc	89.1353	ENDF71x	ENDF/B-VII.1	2006	1200.0	46935	2196	20.0	no	no	no	no	yes	
38090.714nc	89.1353	ENDF71x	ENDF/B-VII.1	2006	2500.0	46892	2190	20.0	no	no	no	no	yes	
38090.715nc	89.1353	ENDF71x	ENDF/B-VII.1	2006	0.1	46964	2200	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
38090.716nc	89.1353	ENDF71x	ENDF/B-VII.1	2006	250.0	46920	2194	20.0	no	no	no	no	yes	
				Z = 39, yttrium										
Y-88														
39088.42c	87.1543	endl92	LLNL	<1992	300	11682	181	30	yes	no	no	no	no	
Y-89														
39089.80c	88.1421	ENDF71x	ENDF/B-VII.1	2009	293.6	334009	7344	20.0	yes	no	yes	no	no	
39089.81c	88.1421	ENDF71x	ENDF/B-VII.1	2009	600.0	331697	7055	20.0	yes	no	yes	no	no	
39089.82c	88.1421	ENDF71x	ENDF/B-VII.1	2009	900.0	331105	6981	20.0	yes	no	yes	no	no	
39089.83c	88.1421	ENDF71x	ENDF/B-VII.1	2009	1200.0	330362	6888	20.0	yes	no	yes	no	no	
39089.84c	88.1421	ENDF71x	ENDF/B-VII.1	2009	2500.0	328041	6598	20.0	yes	no	yes	no	no	
39089.85c	88.1421	ENDF71x	ENDF/B-VII.1	2009	0.1	341458	8275	20.0	yes	no	yes	no	no	
39089.86c	88.1421	ENDF71x	ENDF/B-VII.1	2009	250.0	334354	7387	20.0	yes	no	yes	no	no	
39089.70c	88.1421	endf70c	ENDF/B-VII.0:x	2006	293.6	493699	26716	20	yes	no	yes	no	no	
39089.71c	88.1421	endf70c	ENDF/B-VII.0:x	2006	600	487731	25970	20	yes	no	yes	no	no	
39089.72c	88.1421	endf70c	ENDF/B-VII.0:x	2006	900	483563	25449	20	yes	no	yes	no	no	
39089.73c	88.1421	endf70c	ENDF/B-VII.0:x	2006	1200	480484	25064	20	yes	no	yes	no	no	
39089.74c	88.1421	endf70c	ENDF/B-VII.0:x	2006	2500	470731	23845	20	yes	no	yes	no	no	
39089.66c	88.142	endf66b	ENDF/B-VI.4	1986	293.6	144304	13207	20	yes	no	no	no	no	
39089.60c	88.142	endf60	ENDF/B-VI.0	1986	293.6	86556	9567	20	yes	no	no	no	no	
39089.50c	88.1421	endf5u	ENDF/B-V.0	1985	293.6	18631	3029	20	no	no	no	no	no	10
39089.35c	88.1421	misc5xs	LLNL	<1985	0	49885	6154	20	yes	no	no	no	no	7
39089.42c	88.1421	endl92	LLNL	<1992	300	69315	8771	30	yes	no	no	no	no	
39089.710nc	88.1421	ENDF71x	ENDF/B-VII.1	2009	293.6	334009	7344	20.0	yes	no	yes	no	no	
39089.711nc	88.1421	ENDF71x	ENDF/B-VII.1	2009	600.0	331697	7055	20.0	yes	no	yes	no	no	
39089.712nc	88.1421	ENDF71x	ENDF/B-VII.1	2009	900.0	331105	6981	20.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
39089.713nc	88.1421	ENDF71x	ENDF/B-VII.1	2009	1200.0	330362	6888	20.0	yes	no	yes	no	no	
39089.714nc	88.1421	ENDF71x	ENDF/B-VII.1	2009	2500.0	328041	6598	20.0	yes	no	yes	no	no	
39089.715nc	88.1421	ENDF71x	ENDF/B-VII.1	2009	0.1	341458	8275	20.0	yes	no	yes	no	no	
39089.716nc	88.1421	ENDF71x	ENDF/B-VII.1	2009	250.0	334354	7387	20.0	yes	no	yes	no	no	
Y-90														
39090.80c	89.1348	ENDF71x	ENDF/B-VII.1	2006	293.6	273520	8676	20.0	yes	no	yes	no	yes	
39090.81c	89.1348	ENDF71x	ENDF/B-VII.1	2006	600.0	273520	8676	20.0	yes	no	yes	no	yes	
39090.82c	89.1348	ENDF71x	ENDF/B-VII.1	2006	900.0	273521	8676	20.0	yes	no	yes	no	yes	
39090.83c	89.1348	ENDF71x	ENDF/B-VII.1	2006	1200.0	273520	8676	20.0	yes	no	yes	no	yes	
39090.84c	89.1348	ENDF71x	ENDF/B-VII.1	2006	2500.0	273520	8676	20.0	yes	no	yes	no	yes	
39090.85c	89.1348	ENDF71x	ENDF/B-VII.1	2006	0.1	273528	8677	20.0	yes	no	yes	no	yes	
39090.86c	89.1348	ENDF71x	ENDF/B-VII.1	2006	250.0	273521	8676	20.0	yes	no	yes	no	yes	
39090.70c	89.1348	endf70c	ENDF/B-VII.0	2006	293.6	274027	8758	20	yes	no	yes	no	yes	
39090.71c	89.1348	endf70c	ENDF/B-VII.0	2006	600	274027	8758	20	yes	no	yes	no	yes	
39090.72c	89.1348	endf70c	ENDF/B-VII.0	2006	900	274028	8758	20	yes	no	yes	no	yes	
39090.73c	89.1348	endf70c	ENDF/B-VII.0	2006	1200	274027	8758	20	yes	no	yes	no	yes	
39090.74c	89.1348	endf70c	ENDF/B-VII.0	2006	2500	274027	8758	20	yes	no	yes	no	yes	
39090.710nc	89.1348	ENDF71x	ENDF/B-VII.1	2006	293.6	273520	8676	20.0	yes	no	yes	no	yes	
39090.711nc	89.1348	ENDF71x	ENDF/B-VII.1	2006	600.0	273520	8676	20.0	yes	no	yes	no	yes	
39090.712nc	89.1348	ENDF71x	ENDF/B-VII.1	2006	900.0	273521	8676	20.0	yes	no	yes	no	yes	
39090.713nc	89.1348	ENDF71x	ENDF/B-VII.1	2006	1200.0	273520	8676	20.0	yes	no	yes	no	yes	
39090.714nc	89.1348	ENDF71x	ENDF/B-VII.1	2006	2500.0	273520	8676	20.0	yes	no	yes	no	yes	
39090.715nc	89.1348	ENDF71x	ENDF/B-VII.1	2006	0.1	273528	8677	20.0	yes	no	yes	no	yes	
39090.716nc	89.1348	ENDF71x	ENDF/B-VII.1	2006	250.0	273521	8676	20.0	yes	no	yes	no	yes	
Y-91														

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
39091.80c	90.1264	ENDF71x	ENDF/B-VII.1	2006	293.6	97750	2333	20.0	no	no	no	no	yes	
39091.81c	90.1264	ENDF71x	ENDF/B-VII.1	2006	600.0	97755	2334	20.0	no	no	no	no	yes	
39091.82c	90.1264	ENDF71x	ENDF/B-VII.1	2006	900.0	97755	2334	20.0	no	no	no	no	yes	
39091.83c	90.1264	ENDF71x	ENDF/B-VII.1	2006	1200.0	97743	2332	20.0	no	no	no	no	yes	
39091.84c	90.1264	ENDF71x	ENDF/B-VII.1	2006	2500.0	97783	2338	20.0	no	no	no	no	yes	
39091.85c	90.1264	ENDF71x	ENDF/B-VII.1	2006	0.1	97736	2331	20.0	no	no	no	no	yes	
39091.86c	90.1264	ENDF71x	ENDF/B-VII.1	2006	250.0	97742	2332	20.0	no	no	no	no	yes	
39091.70c	90.1264	endf70c	ENDF/B-VII.0	2006	293.6	97745	2369	20	no	no	no	no	yes	
39091.71c	90.1264	endf70c	ENDF/B-VII.0	2006	600	97750	2370	20	no	no	no	no	yes	
39091.72c	90.1264	endf70c	ENDF/B-VII.0	2006	900	97750	2370	20	no	no	no	no	yes	
39091.73c	90.1264	endf70c	ENDF/B-VII.0	2006	1200	97738	2368	20	no	no	no	no	yes	
39091.74c	90.1264	endf70c	ENDF/B-VII.0	2006	2500	97778	2374	20	no	no	no	no	yes	
39091.710nc	90.1264	ENDF71x	ENDF/B-VII.1	2006	293.6	97750	2333	20.0	no	no	no	no	yes	
39091.711nc	90.1264	ENDF71x	ENDF/B-VII.1	2006	600.0	97755	2334	20.0	no	no	no	no	yes	
39091.712nc	90.1264	ENDF71x	ENDF/B-VII.1	2006	900.0	97755	2334	20.0	no	no	no	no	yes	
39091.713nc	90.1264	ENDF71x	ENDF/B-VII.1	2006	1200.0	97743	2332	20.0	no	no	no	no	yes	
39091.714nc	90.1264	ENDF71x	ENDF/B-VII.1	2006	2500.0	97783	2338	20.0	no	no	no	no	yes	
39091.715nc	90.1264	ENDF71x	ENDF/B-VII.1	2006	0.1	97736	2331	20.0	no	no	no	no	yes	
39091.716nc	90.1264	ENDF71x	ENDF/B-VII.1	2006	250.0	97742	2332	20.0	no	no	no	no	yes	
			Z = 40, zirconium											
Zr-0														
40000.66c	90.436	endf66b	ENDF/B-VI.1	1976	293.6	165542	22226	20	no	no	no	no	no	
40000.60c	90.436	endf60	ENDF/B-VI.1	1976	293.6	66035	10298	20	no	no	no	no	no	11
40000.56c	90.436	misc5xs	ENDF/B-V:X	1976	300	52064	7944	20	no	no	no	no	no	7 11

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
40000.57c	90.436 11	misc5xs	ENDF/B-V:X	1976	300	16816	2116	20	no	no	no	no	no	7
40000.58c	90.436 11	misc5xs	ENDF/B-V:X	1976	587.2	57528	8777	20	no	no	no	no	no	7
40000.42c	90.4364	endl92	LLNL	<1992	300	131855	17909	30	yes	no	no	no	no	
Zr-90														
40090.80c	89.1324	ENDF71x	ENDF/B-VII.1	2011	293.6	211312	4521	20.0	yes	no	yes	no	yes	
40090.81c	89.1324	ENDF71x	ENDF/B-VII.1	2011	600.0	210288	4393	20.0	yes	no	yes	no	yes	
40090.82c	89.1324	ENDF71x	ENDF/B-VII.1	2011	900.0	209703	4320	20.0	yes	no	yes	no	yes	
40090.83c	89.1324	ENDF71x	ENDF/B-VII.1	2011	1200.0	209063	4240	20.0	yes	no	yes	no	yes	
40090.84c	89.1324	ENDF71x	ENDF/B-VII.1	2011	2500.0	207848	4088	20.0	yes	no	yes	no	yes	
40090.85c	89.1324	ENDF71x	ENDF/B-VII.1	2011	0.1	216737	5199	20.0	yes	no	yes	no	yes	
40090.86c	89.1324	ENDF71x	ENDF/B-VII.1	2011	250.0	211439	4537	20.0	yes	no	yes	no	yes	
40090.70c	89.1324	endf70c	ENDF/B-VII.0	2006	293.6	206422	4893	20	yes	no	yes	no	no	
40090.71c	89.1324	endf70c	ENDF/B-VII.0	2006	600	205431	4769	20	yes	no	yes	no	no	
40090.72c	89.1324	endf70c	ENDF/B-VII.0	2006	900	205087	4726	20	yes	no	yes	no	no	
40090.73c	89.1324	endf70c	ENDF/B-VII.0	2006	1200	204670	4674	20	yes	no	yes	no	no	
40090.74c	89.1324	endf70c	ENDF/B-VII.0	2006	2500	203598	4540	20	yes	no	yes	no	no	
40090.66c	89.132	endf66b	ENDF/B-VI.0:X	1976	293.6	51841	6243	20	no	no	no	no	no	
40090.710nc	89.1324	ENDF71x	ENDF/B-VII.1	2011	293.6	211312	4521	20.0	yes	no	yes	no	yes	
40090.711nc	89.1324	ENDF71x	ENDF/B-VII.1	2011	600.0	210288	4393	20.0	yes	no	yes	no	yes	
40090.712nc	89.1324	ENDF71x	ENDF/B-VII.1	2011	900.0	209703	4320	20.0	yes	no	yes	no	yes	
40090.713nc	89.1324	ENDF71x	ENDF/B-VII.1	2011	1200.0	209063	4240	20.0	yes	no	yes	no	yes	
40090.714nc	89.1324	ENDF71x	ENDF/B-VII.1	2011	2500.0	207848	4088	20.0	yes	no	yes	no	yes	
40090.715nc	89.1324	ENDF71x	ENDF/B-VII.1	2011	0.1	216737	5199	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
40090.716nc	89.1324	ENDF71x	ENDF/B-VII.1	2011	250.0	211439	4537	20.0	yes	no	yes	no	yes	
Zr-91														
40091.80c	90.1247	ENDF71x	ENDF/B-VII.1	2011	293.6	553304	9674	20.0	yes	no	yes	no	yes	
40091.81c	90.1247	ENDF71x	ENDF/B-VII.1	2011	600.0	546976	9222	20.0	yes	no	yes	no	yes	
40091.82c	90.1247	ENDF71x	ENDF/B-VII.1	2011	900.0	542173	8879	20.0	yes	no	yes	no	yes	
40091.83c	90.1247	ENDF71x	ENDF/B-VII.1	2011	1200.0	539052	8656	20.0	yes	no	yes	no	yes	
40091.84c	90.1247	ENDF71x	ENDF/B-VII.1	2011	2500.0	532570	8193	20.0	yes	no	yes	no	yes	
40091.85c	90.1247	ENDF71x	ENDF/B-VII.1	2011	0.1	587688	12130	20.0	yes	no	yes	no	yes	
40091.86c	90.1247	ENDF71x	ENDF/B-VII.1	2011	250.0	554507	9760	20.0	yes	no	yes	no	yes	
40091.70c	90.1247	endf70c	ENDF/B-VII.0	2006	293.6	220443	15603	20	yes	no	yes	no	yes	
40091.71c	90.1247	endf70c	ENDF/B-VII.0	2006	600	214610	14874	20	yes	no	yes	no	yes	
40091.72c	90.1247	endf70c	ENDF/B-VII.0	2006	900	210405	14348	20	yes	no	yes	no	yes	
40091.73c	90.1247	endf70c	ENDF/B-VII.0	2006	1200	206886	13908	20	yes	no	yes	no	yes	
40091.74c	90.1247	endf70c	ENDF/B-VII.0	2006	2500	200165	13068	20	yes	no	yes	no	yes	
40091.66c	90.122	endf66b	ENDF/B-VI.0:X	1976	293.6	106833	13828	20	no	no	no	no	yes	
40091.65c	90.122	endf66e	ENDF/B-VI.0:X	1976	3000.1	86834	10971	20	no	no	no	no	yes	
40091.710nc	90.1247	ENDF71x	ENDF/B-VII.1	2011	293.6	553304	9674	20.0	yes	no	yes	no	yes	
40091.711nc	90.1247	ENDF71x	ENDF/B-VII.1	2011	600.0	546976	9222	20.0	yes	no	yes	no	yes	
40091.712nc	90.1247	ENDF71x	ENDF/B-VII.1	2011	900.0	542173	8879	20.0	yes	no	yes	no	yes	
40091.713nc	90.1247	ENDF71x	ENDF/B-VII.1	2011	1200.0	539052	8656	20.0	yes	no	yes	no	yes	
40091.714nc	90.1247	ENDF71x	ENDF/B-VII.1	2011	2500.0	532570	8193	20.0	yes	no	yes	no	yes	
40091.715nc	90.1247	ENDF71x	ENDF/B-VII.1	2011	0.1	587688	12130	20.0	yes	no	yes	no	yes	
40091.716nc	90.1247	ENDF71x	ENDF/B-VII.1	2011	250.0	554507	9760	20.0	yes	no	yes	no	yes	
Zr-92														
40092.80c	91.1155	ENDF71x	ENDF/B-VII.1	2011	293.6	337502	11807	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
40092.81c	91.1155	ENDF71x	ENDF/B-VII.1	2011	600.0	333526	11310	20.0	yes	no	yes	no	yes	
40092.82c	91.1155	ENDF71x	ENDF/B-VII.1	2011	900.0	331580	11067	20.0	yes	no	yes	no	yes	
40092.83c	91.1155	ENDF71x	ENDF/B-VII.1	2011	1200.0	329908	10858	20.0	yes	no	yes	no	yes	
40092.84c	91.1155	ENDF71x	ENDF/B-VII.1	2011	2500.0	325861	10352	20.0	yes	no	yes	no	yes	
40092.85c	91.1155	ENDF71x	ENDF/B-VII.1	2011	0.1	351316	13534	20.0	yes	no	yes	no	yes	
40092.86c	91.1155	ENDF71x	ENDF/B-VII.1	2011	250.0	338006	11870	20.0	yes	no	yes	no	yes	
40092.70c	91.1155	endf70c	ENDF/B-VII.0	2006	293.6	259297	13996	20	yes	no	yes	no	yes	
40092.71c	91.1155	endf70c	ENDF/B-VII.0	2006	600	255315	13499	20	yes	no	yes	no	yes	
40092.72c	91.1155	endf70c	ENDF/B-VII.0	2006	900	253374	13256	20	yes	no	yes	no	yes	
40092.73c	91.1155	endf70c	ENDF/B-VII.0	2006	1200	251703	13047	20	yes	no	yes	no	yes	
40092.74c	91.1155	endf70c	ENDF/B-VII.0	2006	2500	247651	12541	20	yes	no	yes	no	yes	
40092.66c	91.112	endf66b	ENDF/B-VI.0:X	1976	293.6	82986	10664	20	no	no	no	no	no	
40092.710nc	91.1155	ENDF71x	ENDF/B-VII.1	2011	293.6	337502	11807	20.0	yes	no	yes	no	yes	
40092.711nc	91.1155	ENDF71x	ENDF/B-VII.1	2011	600.0	333526	11310	20.0	yes	no	yes	no	yes	
40092.712nc	91.1155	ENDF71x	ENDF/B-VII.1	2011	900.0	331580	11067	20.0	yes	no	yes	no	yes	
40092.713nc	91.1155	ENDF71x	ENDF/B-VII.1	2011	1200.0	329908	10858	20.0	yes	no	yes	no	yes	
40092.714nc	91.1155	ENDF71x	ENDF/B-VII.1	2011	2500.0	325861	10352	20.0	yes	no	yes	no	yes	
40092.715nc	91.1155	ENDF71x	ENDF/B-VII.1	2011	0.1	351316	13534	20.0	yes	no	yes	no	yes	
40092.716nc	91.1155	ENDF71x	ENDF/B-VII.1	2011	250.0	338006	11870	20.0	yes	no	yes	no	yes	
Zr-93														
40093.80c	92.1084	ENDF71x	ENDF/B-VII.1	2011	293.6	527419	10169	20.0	yes	no	yes	no	yes	
40093.81c	92.1084	ENDF71x	ENDF/B-VII.1	2011	600.0	520763	9657	20.0	yes	no	yes	no	yes	
40093.82c	92.1084	ENDF71x	ENDF/B-VII.1	2011	900.0	517644	9417	20.0	yes	no	yes	no	yes	
40093.83c	92.1084	ENDF71x	ENDF/B-VII.1	2011	1200.0	513885	9128	20.0	yes	no	yes	no	yes	
40093.84c	92.1084	ENDF71x	ENDF/B-VII.1	2011	2500.0	507463	8634	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
40093.85c	92.1084	ENDF71x	ENDF/B-VII.1	2011	0.1	565367	13088	20.0	yes	no	yes	no	yes	
40093.86c	92.1084	ENDF71x	ENDF/B-VII.1	2011	250.0	528952	10287	20.0	yes	no	yes	no	yes	
40093.70c	92.1084	endf70c	ENDF/B-VII.0	2006	293.6	126929	11717	20	no	no	no	no	yes	
40093.71c	92.1084	endf70c	ENDF/B-VII.0	2006	600	123347	11205	20	no	no	no	no	yes	
40093.72c	92.1084	endf70c	ENDF/B-VII.0	2006	900	121666	10965	20	no	no	no	no	yes	
40093.73c	92.1084	endf70c	ENDF/B-VII.0	2006	1200	119642	10676	20	no	no	no	no	yes	
40093.74c	92.1084	endf70c	ENDF/B-VII.0	2006	2500	116186	10182	20	no	no	no	no	yes	
40093.50c	92.1083	kidman	ENDF/B-V.0	1974	293.6	2579	236	20	no	no	no	no	no	
40093.710nc	92.1084	ENDF71x	ENDF/B-VII.1	2011	293.6	527419	10169	20.0	yes	no	yes	no	yes	
40093.711nc	92.1084	ENDF71x	ENDF/B-VII.1	2011	600.0	520763	9657	20.0	yes	no	yes	no	yes	
40093.712nc	92.1084	ENDF71x	ENDF/B-VII.1	2011	900.0	517644	9417	20.0	yes	no	yes	no	yes	
40093.713nc	92.1084	ENDF71x	ENDF/B-VII.1	2011	1200.0	513885	9128	20.0	yes	no	yes	no	yes	
40093.714nc	92.1084	ENDF71x	ENDF/B-VII.1	2011	2500.0	507463	8634	20.0	yes	no	yes	no	yes	
40093.715nc	92.1084	ENDF71x	ENDF/B-VII.1	2011	0.1	565367	13088	20.0	yes	no	yes	no	yes	
40093.716nc	92.1084	ENDF71x	ENDF/B-VII.1	2011	250.0	528952	10287	20.0	yes	no	yes	no	yes	
Zr-94														
40094.80c	93.0996	ENDF71x	ENDF/B-VII.1	2011	293.6	320667	12092	20.0	yes	no	yes	no	yes	
40094.81c	93.0996	ENDF71x	ENDF/B-VII.1	2011	600.0	317490	11695	20.0	yes	no	yes	no	yes	
40094.82c	93.0996	ENDF71x	ENDF/B-VII.1	2011	900.0	315708	11472	20.0	yes	no	yes	no	yes	
40094.83c	93.0996	ENDF71x	ENDF/B-VII.1	2011	1200.0	314122	11274	20.0	yes	no	yes	no	yes	
40094.84c	93.0996	ENDF71x	ENDF/B-VII.1	2011	2500.0	309610	10710	20.0	yes	no	yes	no	yes	
40094.85c	93.0996	ENDF71x	ENDF/B-VII.1	2011	0.1	329306	13172	20.0	yes	no	yes	no	yes	
40094.86c	93.0996	ENDF71x	ENDF/B-VII.1	2011	250.0	321298	12171	20.0	yes	no	yes	no	yes	
40094.70c	93.0996	endf70c	ENDF/B-VII.0	2006	293.6	230944	13824	20	yes	no	no	no	yes	
40094.71c	93.0996	endf70c	ENDF/B-VII.0	2006	600	227767	13427	20	yes	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
40094.72c	93.0996	endf70c	ENDF/B-VII.0	2006	900	225984	13204	20	yes	no	no	no	yes	
40094.73c	93.0996	endf70c	ENDF/B-VII.0	2006	1200	224400	13006	20	yes	no	no	no	yes	
40094.74c	93.0996	endf70c	ENDF/B-VII.0	2006	2500	219888	12442	20	yes	no	no	no	yes	
40094.66c	93.096	endf66b	ENDF/B-VI.0:X	1976	293.6	86543	11144	20	no	no	no	no	no	
40094.710nc	93.0996	ENDF71x	ENDF/B-VII.1	2011	293.6	320667	12092	20.0	yes	no	yes	no	yes	
40094.711nc	93.0996	ENDF71x	ENDF/B-VII.1	2011	600.0	317490	11695	20.0	yes	no	yes	no	yes	
40094.712nc	93.0996	ENDF71x	ENDF/B-VII.1	2011	900.0	315708	11472	20.0	yes	no	yes	no	yes	
40094.713nc	93.0996	ENDF71x	ENDF/B-VII.1	2011	1200.0	314122	11274	20.0	yes	no	yes	no	yes	
40094.714nc	93.0996	ENDF71x	ENDF/B-VII.1	2011	2500.0	309610	10710	20.0	yes	no	yes	no	yes	
40094.715nc	93.0996	ENDF71x	ENDF/B-VII.1	2011	0.1	329306	13172	20.0	yes	no	yes	no	yes	
40094.716nc	93.0996	ENDF71x	ENDF/B-VII.1	2011	250.0	321298	12171	20.0	yes	no	yes	no	yes	
Zr-95														
40095.80c	94.0927	ENDF71x	ENDF/B-VII.1	2011	293.6	260197	786	20.0	yes	no	yes	no	yes	
40095.81c	94.0927	ENDF71x	ENDF/B-VII.1	2011	600.0	260197	786	20.0	yes	no	yes	no	yes	
40095.82c	94.0927	ENDF71x	ENDF/B-VII.1	2011	900.0	260207	787	20.0	yes	no	yes	no	yes	
40095.83c	94.0927	ENDF71x	ENDF/B-VII.1	2011	1200.0	260230	790	20.0	yes	no	yes	no	yes	
40095.84c	94.0927	ENDF71x	ENDF/B-VII.1	2011	2500.0	260296	798	20.0	yes	no	yes	no	yes	
40095.85c	94.0927	ENDF71x	ENDF/B-VII.1	2011	0.1	260070	770	20.0	yes	no	yes	no	yes	
40095.86c	94.0927	ENDF71x	ENDF/B-VII.1	2011	250.0	260181	784	20.0	yes	no	yes	no	yes	
40095.70c	94.0927	endf70c	ENDF/B-VII.0	2006	293.6	76930	2182	20	no	no	no	no	yes	
40095.71c	94.0927	endf70c	ENDF/B-VII.0	2006	600	76928	2182	20	no	no	no	no	yes	
40095.72c	94.0927	endf70c	ENDF/B-VII.0	2006	900	76936	2183	20	no	no	no	no	yes	
40095.73c	94.0927	endf70c	ENDF/B-VII.0	2006	1200	76958	2186	20	no	no	no	no	yes	
40095.74c	94.0927	endf70c	ENDF/B-VII.0	2006	2500	77012	2194	20	no	no	no	no	yes	
40095.710nc	94.0927	ENDF71x	ENDF/B-VII.1	2011	293.6	260197	786	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
40095.711nc	94.0927	ENDF71x	ENDF/B-VII.1	2011	600.0	260197	786	20.0	yes	no	yes	no	yes	
40095.712nc	94.0927	ENDF71x	ENDF/B-VII.1	2011	900.0	260207	787	20.0	yes	no	yes	no	yes	
40095.713nc	94.0927	ENDF71x	ENDF/B-VII.1	2011	1200.0	260230	790	20.0	yes	no	yes	no	yes	
40095.714nc	94.0927	ENDF71x	ENDF/B-VII.1	2011	2500.0	260296	798	20.0	yes	no	yes	no	yes	
40095.715nc	94.0927	ENDF71x	ENDF/B-VII.1	2011	0.1	260070	770	20.0	yes	no	yes	no	yes	
40095.716nc	94.0927	ENDF71x	ENDF/B-VII.1	2011	250.0	260181	784	20.0	yes	no	yes	no	yes	
Zr-96														
40096.80c	95.0844	ENDF71x	ENDF/B-VII.1	2011	293.6	220920	6267	20.0	yes	no	yes	no	no	
40096.81c	95.0844	ENDF71x	ENDF/B-VII.1	2011	600.0	219983	6150	20.0	yes	no	yes	no	no	
40096.82c	95.0844	ENDF71x	ENDF/B-VII.1	2011	900.0	219544	6095	20.0	yes	no	yes	no	no	
40096.83c	95.0844	ENDF71x	ENDF/B-VII.1	2011	1200.0	219320	6067	20.0	yes	no	yes	no	no	
40096.84c	95.0844	ENDF71x	ENDF/B-VII.1	2011	2500.0	217720	5867	20.0	yes	no	yes	no	no	
40096.85c	95.0844	ENDF71x	ENDF/B-VII.1	2011	0.1	223217	6554	20.0	yes	no	yes	no	no	
40096.86c	95.0844	ENDF71x	ENDF/B-VII.1	2011	250.0	221144	6295	20.0	yes	no	yes	no	no	
40096.70c	95.0844	endf70c	ENDF/B-VII.0:x	2006	293.6	178950	8206	20	yes	no	yes	no	no	
40096.71c	95.0844	endf70c	ENDF/B-VII.0:x	2006	600	178022	8090	20	yes	no	yes	no	no	
40096.72c	95.0844	endf70c	ENDF/B-VII.0:x	2006	900	177585	8035	20	yes	no	yes	no	no	
40096.73c	95.0844	endf70c	ENDF/B-VII.0:x	2006	1200	177350	8006	20	yes	no	yes	no	no	
40096.74c	95.0844	endf70c	ENDF/B-VII.0:x	2006	2500	175758	7807	20	yes	no	yes	no	no	
40096.66c	95.081	endf66b	ENDF/B-VI.0:X	1976	293.6	47405	5652	20	no	no	no	no	no	
40096.710nc	95.0844	ENDF71x	ENDF/B-VII.1	2011	293.6	220920	6267	20.0	yes	no	yes	no	no	
40096.711nc	95.0844	ENDF71x	ENDF/B-VII.1	2011	600.0	219983	6150	20.0	yes	no	yes	no	no	
40096.712nc	95.0844	ENDF71x	ENDF/B-VII.1	2011	900.0	219544	6095	20.0	yes	no	yes	no	no	
40096.713nc	95.0844	ENDF71x	ENDF/B-VII.1	2011	1200.0	219320	6067	20.0	yes	no	yes	no	no	
40096.714nc	95.0844	ENDF71x	ENDF/B-VII.1	2011	2500.0	217720	5867	20.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
40096.715nc	95.0844	ENDF71x	ENDF/B-VII.1	2011	0.1	223217	6554	20.0	yes	no	yes	no	no	
40096.716nc	95.0844	ENDF71x	ENDF/B-VII.1	2011	250.0	221144	6295	20.0	yes	no	yes	no	no	
				Z = 41, niobium										
Nb-93														
41093.80c	92.1051	ENDF71x	ENDF/B-VII.1	1997	293.6	411260	26161	150.0	yes	no	yes	no	no	
41093.81c	92.1051	ENDF71x	ENDF/B-VII.1	1997	600.0	386997	24139	150.0	yes	no	yes	no	no	
41093.82c	92.1051	ENDF71x	ENDF/B-VII.1	1997	900.0	373724	23033	150.0	yes	no	yes	no	no	
41093.83c	92.1051	ENDF71x	ENDF/B-VII.1	1997	1200.0	363152	22152	150.0	yes	no	yes	no	no	
41093.84c	92.1051	ENDF71x	ENDF/B-VII.1	1997	2500.0	336764	19953	150.0	yes	no	yes	no	no	
41093.85c	92.1051	ENDF71x	ENDF/B-VII.1	1997	0.1	553855	38064	150.0	yes	no	yes	no	no	
41093.86c	92.1051	ENDF71x	ENDF/B-VII.1	1997	250.0	416336	26584	150.0	yes	no	yes	no	no	
41093.70c	92.1051	endf70c	ENDF/B-VII.0	1997	293.6	403290	26034	150	yes	no	yes	no	no	
41093.71c	92.1051	endf70c	ENDF/B-VII.0	1997	600	379027	24012	150	yes	no	yes	no	no	
41093.72c	92.1051	endf70c	ENDF/B-VII.0	1997	900	365754	22906	150	yes	no	yes	no	no	
41093.73c	92.1051	endf70c	ENDF/B-VII.0	1997	1200	355183	22025	150	yes	no	yes	no	no	
41093.74c	92.1051	endf70c	ENDF/B-VII.0	1997	2500	328794	19826	150	yes	no	yes	no	no	
41093.66c	92.1051	endf66b	ENDF/B-VI.6	1997	293.6	367638	23063	150	yes	no	yes	no	no	
41093.60c	92.1051	endf60	ENDF/B-VI.1	1990	293.6	110269	10678	20	yes	no	no	no	no	
41093.51c	92.1051	rmccs	ENDF/B-V.0	1974	293.6	14675	963	20	yes	no	no	no	no	
41093.50c	92.1051	endf5p	ENDF/B-V.0	1974	293.6	128960	17279	20	yes	no	no	no	no	
41093.42c	92.1083	endl92	LLNL	<1992	300	73324	9277	30	yes	no	no	no	no	
41093.24c	92.1051	la150n	LANL	1997	293.6	375888	23213	150	yes	no	yes	no	no	
41093.710nc	92.1051	ENDF71x	ENDF/B-VII.1	1997	293.6	411260	26161	150.0	yes	no	yes	no	no	
41093.711nc	92.1051	ENDF71x	ENDF/B-VII.1	1997	600.0	386997	24139	150.0	yes	no	yes	no	no	
41093.712nc	92.1051	ENDF71x	ENDF/B-VII.1	1997	900.0	373724	23033	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
41093.713nc	92.1051	ENDF71x	ENDF/B-VII.1	1997	1200.0	363152	22152	150.0	yes	no	yes	no	no	
41093.714nc	92.1051	ENDF71x	ENDF/B-VII.1	1997	2500.0	336764	19953	150.0	yes	no	yes	no	no	
41093.715nc	92.1051	ENDF71x	ENDF/B-VII.1	1997	0.1	553855	38064	150.0	yes	no	yes	no	no	
41093.716nc	92.1051	ENDF71x	ENDF/B-VII.1	1997	250.0	416336	26584	150.0	yes	no	yes	no	no	
Nb-94														
41094.80c	93.1006	ENDF71x	ENDF/B-VII.1	2006	293.6	120168	3162	20.0	no	no	no	no	yes	
41094.81c	93.1006	ENDF71x	ENDF/B-VII.1	2006	600.0	120076	3149	20.0	no	no	no	no	yes	
41094.82c	93.1006	ENDF71x	ENDF/B-VII.1	2006	900.0	119936	3129	20.0	no	no	no	no	yes	
41094.83c	93.1006	ENDF71x	ENDF/B-VII.1	2006	1200.0	119740	3101	20.0	no	no	no	no	yes	
41094.84c	93.1006	ENDF71x	ENDF/B-VII.1	2006	2500.0	119666	3090	20.0	no	no	no	no	yes	
41094.85c	93.1006	ENDF71x	ENDF/B-VII.1	2006	0.1	120083	3150	20.0	no	no	no	no	yes	
41094.86c	93.1006	ENDF71x	ENDF/B-VII.1	2006	250.0	120190	3165	20.0	no	no	no	no	yes	
41094.70c	93.1006	endf70c	ENDF/B-VII.0	2006	293.6	113779	3208	20	no	no	no	no	no	
41094.71c	93.1006	endf70c	ENDF/B-VII.0	2006	600	113687	3195	20	no	no	no	no	no	
41094.72c	93.1006	endf70c	ENDF/B-VII.0	2006	900	113547	3175	20	no	no	no	no	no	
41094.73c	93.1006	endf70c	ENDF/B-VII.0	2006	1200	113351	3147	20	no	no	no	no	no	
41094.74c	93.1006	endf70c	ENDF/B-VII.0	2006	2500	113277	3136	20	no	no	no	no	no	
41094.710nc	93.1006	ENDF71x	ENDF/B-VII.1	2006	293.6	120168	3162	20.0	no	no	no	no	yes	
41094.711nc	93.1006	ENDF71x	ENDF/B-VII.1	2006	600.0	120076	3149	20.0	no	no	no	no	yes	
41094.712nc	93.1006	ENDF71x	ENDF/B-VII.1	2006	900.0	119936	3129	20.0	no	no	no	no	yes	
41094.713nc	93.1006	ENDF71x	ENDF/B-VII.1	2006	1200.0	119740	3101	20.0	no	no	no	no	yes	
41094.714nc	93.1006	ENDF71x	ENDF/B-VII.1	2006	2500.0	119666	3090	20.0	no	no	no	no	yes	
41094.715nc	93.1006	ENDF71x	ENDF/B-VII.1	2006	0.1	120083	3150	20.0	no	no	no	no	yes	
41094.716nc	93.1006	ENDF71x	ENDF/B-VII.1	2006	250.0	120190	3165	20.0	no	no	no	no	yes	
Nb-95														

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
41095.80c	94.0915	ENDF71x	ENDF/B-VII.1	2006	293.6	89903	2611	20.0	no	no	no	no	yes	
41095.81c	94.0915	ENDF71x	ENDF/B-VII.1	2006	600.0	89965	2620	20.0	no	no	no	no	yes	
41095.82c	94.0915	ENDF71x	ENDF/B-VII.1	2006	900.0	89867	2606	20.0	no	no	no	no	yes	
41095.83c	94.0915	ENDF71x	ENDF/B-VII.1	2006	1200.0	89896	2610	20.0	no	no	no	no	yes	
41095.84c	94.0915	ENDF71x	ENDF/B-VII.1	2006	2500.0	89952	2618	20.0	no	no	no	no	yes	
41095.85c	94.0915	ENDF71x	ENDF/B-VII.1	2006	0.1	89694	2581	20.0	no	no	no	no	yes	
41095.86c	94.0915	ENDF71x	ENDF/B-VII.1	2006	250.0	89888	2609	20.0	no	no	no	no	yes	
41095.70c	94.0915	endf70c	ENDF/B-VII.0	2006	293.6	85524	2650	20	no	no	no	no	no	
41095.71c	94.0915	endf70c	ENDF/B-VII.0	2006	600	85586	2659	20	no	no	no	no	no	
41095.72c	94.0915	endf70c	ENDF/B-VII.0	2006	900	85488	2645	20	no	no	no	no	no	
41095.73c	94.0915	endf70c	ENDF/B-VII.0	2006	1200	85517	2649	20	no	no	no	no	no	
41095.74c	94.0915	endf70c	ENDF/B-VII.0	2006	2500	85573	2657	20	no	no	no	no	no	
41095.710nc	94.0915	ENDF71x	ENDF/B-VII.1	2006	293.6	89903	2611	20.0	no	no	no	no	yes	
41095.711nc	94.0915	ENDF71x	ENDF/B-VII.1	2006	600.0	89965	2620	20.0	no	no	no	no	yes	
41095.712nc	94.0915	ENDF71x	ENDF/B-VII.1	2006	900.0	89867	2606	20.0	no	no	no	no	yes	
41095.713nc	94.0915	ENDF71x	ENDF/B-VII.1	2006	1200.0	89896	2610	20.0	no	no	no	no	yes	
41095.714nc	94.0915	ENDF71x	ENDF/B-VII.1	2006	2500.0	89952	2618	20.0	no	no	no	no	yes	
41095.715nc	94.0915	ENDF71x	ENDF/B-VII.1	2006	0.1	89694	2581	20.0	no	no	no	no	yes	
41095.716nc	94.0915	ENDF71x	ENDF/B-VII.1	2006	250.0	89888	2609	20.0	no	no	no	no	yes	
			Z = 42, molybdenum											
Mo-0														
42000.66c	95.116	endf66b	ENDF/B-VI.0	1979	293.6	68710	7680	20	yes	no	no	no	no	
42000.60c	95.116	endf60	ENDF/B-VI.0	1979	293.6	45573	5466	20	yes	no	no	no	no	
42000.51c	95.116	rmccs	ENDF/B-V.0	1979	293.6	10139	618	20	yes	no	no	no	no	
42000.50c	95.116	endf5u	ENDF/B-V.0	1979	293.6	35634	4260	20	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
42000.42c	95.1158	endl92	LLNL	<1992	300	9293	442	30	yes	no	no	no	no	
Mo-92														
42092.80c	91.1173	ENDF71x	ENDF/B-VII.1	2006	293.6	245771	12682	20.0	yes	no	yes	no	yes	
42092.81c	91.1173	ENDF71x	ENDF/B-VII.1	2006	600.0	242208	12237	20.0	yes	no	yes	no	yes	
42092.82c	91.1173	ENDF71x	ENDF/B-VII.1	2006	900.0	240099	11973	20.0	yes	no	yes	no	yes	
42092.83c	91.1173	ENDF71x	ENDF/B-VII.1	2006	1200.0	238203	11736	20.0	yes	no	yes	no	yes	
42092.84c	91.1173	ENDF71x	ENDF/B-VII.1	2006	2500.0	234387	11259	20.0	yes	no	yes	no	yes	
42092.85c	91.1173	ENDF71x	ENDF/B-VII.1	2006	0.1	265987	15209	20.0	yes	no	yes	no	yes	
42092.86c	91.1173	ENDF71x	ENDF/B-VII.1	2006	250.0	246395	12760	20.0	yes	no	yes	no	yes	
42092.70c	91.1173	endf70c	ENDF/B-VII.0	2006	293.6	263186	14849	20	yes	no	yes	no	yes	
42092.71c	91.1173	endf70c	ENDF/B-VII.0	2006	600	259354	14370	20	yes	no	yes	no	yes	
42092.72c	91.1173	endf70c	ENDF/B-VII.0	2006	900	256010	13952	20	yes	no	yes	no	yes	
42092.73c	91.1173	endf70c	ENDF/B-VII.0	2006	1200	254013	13702	20	yes	no	yes	no	yes	
42092.74c	91.1173	endf70c	ENDF/B-VII.0	2006	2500	249917	13190	20	yes	no	yes	no	yes	
42092.710nc	91.1173	ENDF71x	ENDF/B-VII.1	2006	293.6	245771	12682	20.0	yes	no	yes	no	yes	
42092.711nc	91.1173	ENDF71x	ENDF/B-VII.1	2006	600.0	242208	12237	20.0	yes	no	yes	no	yes	
42092.712nc	91.1173	ENDF71x	ENDF/B-VII.1	2006	900.0	240099	11973	20.0	yes	no	yes	no	yes	
42092.713nc	91.1173	ENDF71x	ENDF/B-VII.1	2006	1200.0	238203	11736	20.0	yes	no	yes	no	yes	
42092.714nc	91.1173	ENDF71x	ENDF/B-VII.1	2006	2500.0	234387	11259	20.0	yes	no	yes	no	yes	
42092.715nc	91.1173	ENDF71x	ENDF/B-VII.1	2006	0.1	265987	15209	20.0	yes	no	yes	no	yes	
42092.716nc	91.1173	ENDF71x	ENDF/B-VII.1	2006	250.0	246395	12760	20.0	yes	no	yes	no	yes	
Mo-94														
42094.80c	93.0984	ENDF71x	ENDF/B-VII.1	2006	293.6	262898	11735	20.0	yes	no	yes	no	yes	
42094.81c	93.0984	ENDF71x	ENDF/B-VII.1	2006	600.0	260234	11402	20.0	yes	no	yes	no	yes	
42094.82c	93.0984	ENDF71x	ENDF/B-VII.1	2006	900.0	257637	11077	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
42094.83c	93.0984	ENDF71x	ENDF/B-VII.1	2006	1200.0	256072	10881	20.0	yes	no	yes	no	yes	
42094.84c	93.0984	ENDF71x	ENDF/B-VII.1	2006	2500.0	252893	10484	20.0	yes	no	yes	no	yes	
42094.85c	93.0984	ENDF71x	ENDF/B-VII.1	2006	0.1	285768	14593	20.0	yes	no	yes	no	yes	
42094.86c	93.0984	ENDF71x	ENDF/B-VII.1	2006	250.0	263418	11800	20.0	yes	no	yes	no	yes	
42094.70c	93.0984	endf70c	ENDF/B-VII.0	2006	293.6	263373	11770	20	yes	no	yes	no	yes	
42094.71c	93.0984	endf70c	ENDF/B-VII.0	2006	600	260706	11437	20	yes	no	yes	no	yes	
42094.72c	93.0984	endf70c	ENDF/B-VII.0	2006	900	258109	11112	20	yes	no	yes	no	yes	
42094.73c	93.0984	endf70c	ENDF/B-VII.0	2006	1200	256544	10916	20	yes	no	yes	no	yes	
42094.74c	93.0984	endf70c	ENDF/B-VII.0	2006	2500	253378	10520	20	yes	no	yes	no	yes	
42094.710nc	93.0984	ENDF71x	ENDF/B-VII.1	2006	293.6	262898	11735	20.0	yes	no	yes	no	yes	
42094.711nc	93.0984	ENDF71x	ENDF/B-VII.1	2006	600.0	260234	11402	20.0	yes	no	yes	no	yes	
42094.712nc	93.0984	ENDF71x	ENDF/B-VII.1	2006	900.0	257637	11077	20.0	yes	no	yes	no	yes	
42094.713nc	93.0984	ENDF71x	ENDF/B-VII.1	2006	1200.0	256072	10881	20.0	yes	no	yes	no	yes	
42094.714nc	93.0984	ENDF71x	ENDF/B-VII.1	2006	2500.0	252893	10484	20.0	yes	no	yes	no	yes	
42094.715nc	93.0984	ENDF71x	ENDF/B-VII.1	2006	0.1	285768	14593	20.0	yes	no	yes	no	yes	
42094.716nc	93.0984	ENDF71x	ENDF/B-VII.1	2006	250.0	263418	11800	20.0	yes	no	yes	no	yes	
Mo-95														
42095.80c	94.0906	ENDF71x	ENDF/B-VII.1	2011	293.6	284398	11867	20.0	yes	no	yes	no	yes	
42095.81c	94.0906	ENDF71x	ENDF/B-VII.1	2011	600.0	276509	11078	20.0	yes	no	yes	no	yes	
42095.82c	94.0906	ENDF71x	ENDF/B-VII.1	2011	900.0	272208	10648	20.0	yes	no	yes	no	yes	
42095.83c	94.0906	ENDF71x	ENDF/B-VII.1	2011	1200.0	269498	10377	20.0	yes	no	yes	no	yes	
42095.84c	94.0906	ENDF71x	ENDF/B-VII.1	2011	2500.0	261619	9589	20.0	yes	no	yes	no	yes	
42095.85c	94.0906	ENDF71x	ENDF/B-VII.1	2011	0.1	325898	16017	20.0	yes	no	yes	no	yes	
42095.86c	94.0906	ENDF71x	ENDF/B-VII.1	2011	250.0	286028	12030	20.0	yes	no	yes	no	yes	
42095.70c	94.0906	endf70c	ENDF/B-VII.0	2006	293.6	281251	11602	20	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
42095.71c	94.0906	endf70c	ENDF/B-VII.0	2006	600	274542	10931	20	yes	no	yes	no	yes	
42095.72c	94.0906	endf70c	ENDF/B-VII.0	2006	900	270191	10496	20	yes	no	yes	no	yes	
42095.73c	94.0906	endf70c	ENDF/B-VII.0	2006	1200	267491	10226	20	yes	no	yes	no	yes	
42095.74c	94.0906	endf70c	ENDF/B-VII.0	2006	2500	260312	9508	20	yes	no	yes	no	yes	
42095.50c	94.0906	kidman	ENDF/B-V.0	1980	293.6	15411	2256	20	no	no	no	no	no	
42095.710nc	94.0906	ENDF71x	ENDF/B-VII.1	2011	293.6	284398	11867	20.0	yes	no	yes	no	yes	
42095.711nc	94.0906	ENDF71x	ENDF/B-VII.1	2011	600.0	276509	11078	20.0	yes	no	yes	no	yes	
42095.712nc	94.0906	ENDF71x	ENDF/B-VII.1	2011	900.0	272208	10648	20.0	yes	no	yes	no	yes	
42095.713nc	94.0906	ENDF71x	ENDF/B-VII.1	2011	1200.0	269498	10377	20.0	yes	no	yes	no	yes	
42095.714nc	94.0906	ENDF71x	ENDF/B-VII.1	2011	2500.0	261619	9589	20.0	yes	no	yes	no	yes	
42095.715nc	94.0906	ENDF71x	ENDF/B-VII.1	2011	0.1	325898	16017	20.0	yes	no	yes	no	yes	
42095.716nc	94.0906	ENDF71x	ENDF/B-VII.1	2011	250.0	286028	12030	20.0	yes	no	yes	no	yes	
Mo-96														
42096.80c	95.0808	ENDF71x	ENDF/B-VII.1	2006	293.6	278600	14902	20.0	yes	no	yes	no	yes	
42096.81c	95.0808	ENDF71x	ENDF/B-VII.1	2006	600.0	273591	14276	20.0	yes	no	yes	no	yes	
42096.82c	95.0808	ENDF71x	ENDF/B-VII.1	2006	900.0	271079	13962	20.0	yes	no	yes	no	yes	
42096.83c	95.0808	ENDF71x	ENDF/B-VII.1	2006	1200.0	269031	13706	20.0	yes	no	yes	no	yes	
42096.84c	95.0808	ENDF71x	ENDF/B-VII.1	2006	2500.0	264592	13151	20.0	yes	no	yes	no	yes	
42096.85c	95.0808	ENDF71x	ENDF/B-VII.1	2006	0.1	312786	19175	20.0	yes	no	yes	no	yes	
42096.86c	95.0808	ENDF71x	ENDF/B-VII.1	2006	250.0	279210	14978	20.0	yes	no	yes	no	yes	
42096.70c	95.0808	endf70c	ENDF/B-VII.0	2006	293.6	279000	14939	20	yes	no	yes	no	yes	
42096.71c	95.0808	endf70c	ENDF/B-VII.0	2006	600	273978	14312	20	yes	no	yes	no	yes	
42096.72c	95.0808	endf70c	ENDF/B-VII.0	2006	900	271466	13998	20	yes	no	yes	no	yes	
42096.73c	95.0808	endf70c	ENDF/B-VII.0	2006	1200	269418	13742	20	yes	no	yes	no	yes	
42096.74c	95.0808	endf70c	ENDF/B-VII.0	2006	2500	264979	13187	20	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
42096.710nc	95.0808	ENDF71x	ENDF/B-VII.1	2006	293.6	278600	14902	20.0	yes	no	yes	no	yes	
42096.711nc	95.0808	ENDF71x	ENDF/B-VII.1	2006	600.0	273591	14276	20.0	yes	no	yes	no	yes	
42096.712nc	95.0808	ENDF71x	ENDF/B-VII.1	2006	900.0	271079	13962	20.0	yes	no	yes	no	yes	
42096.713nc	95.0808	ENDF71x	ENDF/B-VII.1	2006	1200.0	269031	13706	20.0	yes	no	yes	no	yes	
42096.714nc	95.0808	ENDF71x	ENDF/B-VII.1	2006	2500.0	264592	13151	20.0	yes	no	yes	no	yes	
42096.715nc	95.0808	ENDF71x	ENDF/B-VII.1	2006	0.1	312786	19175	20.0	yes	no	yes	no	yes	
42096.716nc	95.0808	ENDF71x	ENDF/B-VII.1	2006	250.0	279210	14978	20.0	yes	no	yes	no	yes	
Mo-97														
42097.80c	96.0735	ENDF71x	ENDF/B-VII.1	2006	293.6	301703	15254	20.0	yes	no	yes	no	yes	
42097.81c	96.0735	ENDF71x	ENDF/B-VII.1	2006	600.0	293631	14245	20.0	yes	no	yes	no	yes	
42097.82c	96.0735	ENDF71x	ENDF/B-VII.1	2006	900.0	289909	13779	20.0	yes	no	yes	no	yes	
42097.83c	96.0735	ENDF71x	ENDF/B-VII.1	2006	1200.0	286412	13343	20.0	yes	no	yes	no	yes	
42097.84c	96.0735	ENDF71x	ENDF/B-VII.1	2006	2500.0	279159	12436	20.0	yes	no	yes	no	yes	
42097.85c	96.0735	ENDF71x	ENDF/B-VII.1	2006	0.1	340378	20088	20.0	yes	no	yes	no	yes	
42097.86c	96.0735	ENDF71x	ENDF/B-VII.1	2006	250.0	303156	15436	20.0	yes	no	yes	no	yes	
42097.70c	96.0735	endf70c	ENDF/B-VII.0:x	2006	293.6	301944	15299	20	yes	no	yes	no	yes	
42097.71c	96.0735	endf70c	ENDF/B-VII.0:x	2006	600	293859	14289	20	yes	no	yes	no	yes	
42097.72c	96.0735	endf70c	ENDF/B-VII.0:x	2006	900	290150	13824	20	yes	no	yes	no	yes	
42097.73c	96.0735	endf70c	ENDF/B-VII.0:x	2006	1200	286659	13388	20	yes	no	yes	no	yes	
42097.74c	96.0735	endf70c	ENDF/B-VII.0:x	2006	2500	279390	12480	20	yes	no	yes	no	yes	
42097.710nc	96.0735	ENDF71x	ENDF/B-VII.1	2006	293.6	301703	15254	20.0	yes	no	yes	no	yes	
42097.711nc	96.0735	ENDF71x	ENDF/B-VII.1	2006	600.0	293631	14245	20.0	yes	no	yes	no	yes	
42097.712nc	96.0735	ENDF71x	ENDF/B-VII.1	2006	900.0	289909	13779	20.0	yes	no	yes	no	yes	
42097.713nc	96.0735	ENDF71x	ENDF/B-VII.1	2006	1200.0	286412	13343	20.0	yes	no	yes	no	yes	
42097.714nc	96.0735	ENDF71x	ENDF/B-VII.1	2006	2500.0	279159	12436	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
42097.715nc	96.0735	ENDF71x	ENDF/B-VII.1	2006	0.1	340378	20088	20.0	yes	no	yes	no	yes	
42097.716nc	96.0735	ENDF71x	ENDF/B-VII.1	2006	250.0	303156	15436	20.0	yes	no	yes	no	yes	
Mo-98														
42098.80c	97.0643	ENDF71x	ENDF/B-VII.1	2006	293.6	328126	22674	20.0	yes	no	yes	no	yes	
42098.81c	97.0643	ENDF71x	ENDF/B-VII.1	2006	600.0	318883	21519	20.0	yes	no	yes	no	yes	
42098.82c	97.0643	ENDF71x	ENDF/B-VII.1	2006	900.0	313643	20864	20.0	yes	no	yes	no	yes	
42098.83c	97.0643	ENDF71x	ENDF/B-VII.1	2006	1200.0	310659	20491	20.0	yes	no	yes	no	yes	
42098.84c	97.0643	ENDF71x	ENDF/B-VII.1	2006	2500.0	301414	19335	20.0	yes	no	yes	no	yes	
42098.85c	97.0643	ENDF71x	ENDF/B-VII.1	2006	0.1	386470	29967	20.0	yes	no	yes	no	yes	
42098.86c	97.0643	ENDF71x	ENDF/B-VII.1	2006	250.0	329678	22868	20.0	yes	no	yes	no	yes	
42098.70c	97.0643	endf70c	ENDF/B-VII.0	2006	293.6	328768	22724	20	yes	no	yes	no	yes	
42098.71c	97.0643	endf70c	ENDF/B-VII.0	2006	600	319528	21569	20	yes	no	yes	no	yes	
42098.72c	97.0643	endf70c	ENDF/B-VII.0	2006	900	314288	20914	20	yes	no	yes	no	yes	
42098.73c	97.0643	endf70c	ENDF/B-VII.0	2006	1200	311304	20541	20	yes	no	yes	no	yes	
42098.74c	97.0643	endf70c	ENDF/B-VII.0	2006	2500	302059	19385	20	yes	no	yes	no	yes	
42098.710nc	97.0643	ENDF71x	ENDF/B-VII.1	2006	293.6	328126	22674	20.0	yes	no	yes	no	yes	
42098.711nc	97.0643	ENDF71x	ENDF/B-VII.1	2006	600.0	318883	21519	20.0	yes	no	yes	no	yes	
42098.712nc	97.0643	ENDF71x	ENDF/B-VII.1	2006	900.0	313643	20864	20.0	yes	no	yes	no	yes	
42098.713nc	97.0643	ENDF71x	ENDF/B-VII.1	2006	1200.0	310659	20491	20.0	yes	no	yes	no	yes	
42098.714nc	97.0643	ENDF71x	ENDF/B-VII.1	2006	2500.0	301414	19335	20.0	yes	no	yes	no	yes	
42098.715nc	97.0643	ENDF71x	ENDF/B-VII.1	2006	0.1	386470	29967	20.0	yes	no	yes	no	yes	
42098.716nc	97.0643	ENDF71x	ENDF/B-VII.1	2006	250.0	329678	22868	20.0	yes	no	yes	no	yes	
Mo-99														
42099.80c	98.058	ENDF71x	ENDF/B-VII.1	2006	293.6	72971	2177	20.0	no	no	no	no	yes	
42099.81c	98.058	ENDF71x	ENDF/B-VII.1	2006	600.0	72900	2167	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
42099.82c	98.058	ENDF71x	ENDF/B-VII.1	2006	900.0	72949	2174	20.0	no	no	no	no	yes	
42099.83c	98.058	ENDF71x	ENDF/B-VII.1	2006	1200.0	72963	2176	20.0	no	no	no	no	yes	
42099.84c	98.058	ENDF71x	ENDF/B-VII.1	2006	2500.0	72901	2167	20.0	no	no	no	no	yes	
42099.85c	98.058	ENDF71x	ENDF/B-VII.1	2006	0.1	72712	2140	20.0	no	no	no	no	yes	
42099.86c	98.058	ENDF71x	ENDF/B-VII.1	2006	250.0	72970	2177	20.0	no	no	no	no	yes	
42099.70c	98.058	endf70c	ENDF/B-VII.0	2006	293.6	68519	2220	20	no	no	no	no	no	
42099.71c	98.058	endf70c	ENDF/B-VII.0	2006	600	68448	2210	20	no	no	no	no	no	
42099.72c	98.058	endf70c	ENDF/B-VII.0	2006	900	68497	2217	20	no	no	no	no	no	
42099.73c	98.058	endf70c	ENDF/B-VII.0	2006	1200	68518	2220	20	no	no	no	no	no	
42099.74c	98.058	endf70c	ENDF/B-VII.0	2006	2500	68449	2210	20	no	no	no	no	no	
42099.710nc	98.058	ENDF71x	ENDF/B-VII.1	2006	293.6	72971	2177	20.0	no	no	no	no	yes	
42099.711nc	98.058	ENDF71x	ENDF/B-VII.1	2006	600.0	72900	2167	20.0	no	no	no	no	yes	
42099.712nc	98.058	ENDF71x	ENDF/B-VII.1	2006	900.0	72949	2174	20.0	no	no	no	no	yes	
42099.713nc	98.058	ENDF71x	ENDF/B-VII.1	2006	1200.0	72963	2176	20.0	no	no	no	no	yes	
42099.714nc	98.058	ENDF71x	ENDF/B-VII.1	2006	2500.0	72901	2167	20.0	no	no	no	no	yes	
42099.715nc	98.058	ENDF71x	ENDF/B-VII.1	2006	0.1	72712	2140	20.0	no	no	no	no	yes	
42099.716nc	98.058	ENDF71x	ENDF/B-VII.1	2006	250.0	72970	2177	20.0	no	no	no	no	yes	
Mo-100														
42100.80c	99.049	ENDF71x	ENDF/B-VII.1	2006	293.6	192251	20746	20.0	no	no	no	no	yes	
42100.81c	99.049	ENDF71x	ENDF/B-VII.1	2006	600.0	184180	19593	20.0	no	no	no	no	yes	
42100.82c	99.049	ENDF71x	ENDF/B-VII.1	2006	900.0	180409	19054	20.0	no	no	no	no	yes	
42100.83c	99.049	ENDF71x	ENDF/B-VII.1	2006	1200.0	177462	18633	20.0	no	no	no	no	yes	
42100.84c	99.049	ENDF71x	ENDF/B-VII.1	2006	2500.0	167906	17268	20.0	no	no	no	no	yes	
42100.85c	99.049	ENDF71x	ENDF/B-VII.1	2006	0.1	246769	28534	20.0	no	no	no	no	yes	
42100.86c	99.049	ENDF71x	ENDF/B-VII.1	2006	250.0	194113	21012	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
42100.70c	99.049	endf70c	ENDF/B-VII.0	2006	293.6	192371	20801	20	no	no	no	no	yes	
42100.71c	99.049	endf70c	ENDF/B-VII.0	2006	600	184300	19648	20	no	no	no	no	yes	
42100.72c	99.049	endf70c	ENDF/B-VII.0	2006	900	180529	19109	20	no	no	no	no	yes	
42100.73c	99.049	endf70c	ENDF/B-VII.0	2006	1200	177582	18688	20	no	no	no	no	yes	
42100.74c	99.049	endf70c	ENDF/B-VII.0	2006	2500	168026	17323	20	no	no	no	no	yes	
42100.710nc	99.049	ENDF71x	ENDF/B-VII.1	2006	293.6	192251	20746	20.0	no	no	no	no	yes	
42100.711nc	99.049	ENDF71x	ENDF/B-VII.1	2006	600.0	184180	19593	20.0	no	no	no	no	yes	
42100.712nc	99.049	ENDF71x	ENDF/B-VII.1	2006	900.0	180409	19054	20.0	no	no	no	no	yes	
42100.713nc	99.049	ENDF71x	ENDF/B-VII.1	2006	1200.0	177462	18633	20.0	no	no	no	no	yes	
42100.714nc	99.049	ENDF71x	ENDF/B-VII.1	2006	2500.0	167906	17268	20.0	no	no	no	no	yes	
42100.715nc	99.049	ENDF71x	ENDF/B-VII.1	2006	0.1	246769	28534	20.0	no	no	no	no	yes	
42100.716nc	99.049	ENDF71x	ENDF/B-VII.1	2006	250.0	194113	21012	20.0	no	no	no	no	yes	
				Z = 43, technetium										
Tc-99														
43099.80c	98.0566	ENDF71x	ENDF/B-VII.1	2010	293.6	729323	53631	20.0	yes	no	yes	no	yes	
43099.81c	98.0566	ENDF71x	ENDF/B-VII.1	2010	600.0	674996	46840	20.0	yes	no	yes	no	yes	
43099.82c	98.0566	ENDF71x	ENDF/B-VII.1	2010	900.0	643067	42849	20.0	yes	no	yes	no	yes	
43099.83c	98.0566	ENDF71x	ENDF/B-VII.1	2010	1200.0	620187	39989	20.0	yes	no	yes	no	yes	
43099.84c	98.0566	ENDF71x	ENDF/B-VII.1	2010	2500.0	560683	32551	20.0	yes	no	yes	no	yes	
43099.85c	98.0566	ENDF71x	ENDF/B-VII.1	2010	0.1	1037155	92110	20.0	yes	no	yes	no	yes	
43099.86c	98.0566	ENDF71x	ENDF/B-VII.1	2010	250.0	742700	55303	20.0	yes	no	yes	no	yes	
43099.70c	98.0566	endf70d	ENDF/B-VII.0	2006	293.6	733263	53985	20	yes	no	yes	no	yes	
43099.71c	98.0566	endf70d	ENDF/B-VII.0	2006	600	677672	47036	20	yes	no	yes	no	yes	
43099.72c	98.0566	endf70d	ENDF/B-VII.0	2006	900	646047	43083	20	yes	no	yes	no	yes	
43099.73c	98.0566	endf70d	ENDF/B-VII.0	2006	1200	622783	40175	20	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
43099.74c	98.0566	endf70d	ENDF/B-VII.0	2006	2500	563143	32720	20	yes	no	yes	no	yes	
43099.66c	98.15	endf66b	ENDF/B-VI.0	1978	293.6	90039	11753	20	no	no	no	no	yes	
43099.65c	98.15	endf66e	ENDF/B-VI.0	1978	3000.1	67583	8545	20	no	no	no	no	yes	
43099.60c	98.15	endf60	ENDF/B-VI.0	1978	293.6	54262	8565	20	no	no	no	no	no	
43099.50c	98.15	kidman	ENDF/B-V.0	1978	293.6	12152	1640	20	no	no	no	no	no	
43099.710nc	98.0566	ENDF71x	ENDF/B-VII.1	2010	293.6	729323	53631	20.0	yes	no	yes	no	yes	
43099.711nc	98.0566	ENDF71x	ENDF/B-VII.1	2010	600.0	674996	46840	20.0	yes	no	yes	no	yes	
43099.712nc	98.0566	ENDF71x	ENDF/B-VII.1	2010	900.0	643067	42849	20.0	yes	no	yes	no	yes	
43099.713nc	98.0566	ENDF71x	ENDF/B-VII.1	2010	1200.0	620187	39989	20.0	yes	no	yes	no	yes	
43099.714nc	98.0566	ENDF71x	ENDF/B-VII.1	2010	2500.0	560683	32551	20.0	yes	no	yes	no	yes	
43099.715nc	98.0566	ENDF71x	ENDF/B-VII.1	2010	0.1	1037155	92110	20.0	yes	no	yes	no	yes	
43099.716nc	98.0566	ENDF71x	ENDF/B-VII.1	2010	250.0	742700	55303	20.0	yes	no	yes	no	yes	
Z = 44, ruthenium														
Ru-96														
44096.80c	95.0837	ENDF71x	ENDF/B-VII.1	2006	293.6	81425	2645	20.0	no	no	no	no	yes	
44096.81c	95.0837	ENDF71x	ENDF/B-VII.1	2006	600.0	81459	2650	20.0	no	no	no	no	yes	
44096.82c	95.0837	ENDF71x	ENDF/B-VII.1	2006	900.0	81495	2655	20.0	no	no	no	no	yes	
44096.83c	95.0837	ENDF71x	ENDF/B-VII.1	2006	1200.0	81501	2656	20.0	no	no	no	no	yes	
44096.84c	95.0837	ENDF71x	ENDF/B-VII.1	2006	2500.0	81480	2653	20.0	no	no	no	no	yes	
44096.85c	95.0837	ENDF71x	ENDF/B-VII.1	2006	0.1	81404	2642	20.0	no	no	no	no	yes	
44096.86c	95.0837	ENDF71x	ENDF/B-VII.1	2006	250.0	81438	2647	20.0	no	no	no	no	yes	
44096.70c	95.0837	endf70d	ENDF/B-VII.0	2006	293.6	81356	2691	20	no	no	no	no	yes	
44096.71c	95.0837	endf70d	ENDF/B-VII.0	2006	600	81390	2696	20	no	no	no	no	yes	
44096.72c	95.0837	endf70d	ENDF/B-VII.0	2006	900	81426	2701	20	no	no	no	no	yes	
44096.73c	95.0837	endf70d	ENDF/B-VII.0	2006	1200	81432	2702	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
44096.74c	95.0837	endf70d	ENDF/B-VII.0	2006	2500	81411	2699	20	no	no	no	no	yes	
44096.710nc	95.0837	ENDF71x	ENDF/B-VII.1	2006	293.6	81425	2645	20.0	no	no	no	no	yes	
44096.711nc	95.0837	ENDF71x	ENDF/B-VII.1	2006	600.0	81459	2650	20.0	no	no	no	no	yes	
44096.712nc	95.0837	ENDF71x	ENDF/B-VII.1	2006	900.0	81495	2655	20.0	no	no	no	no	yes	
44096.713nc	95.0837	ENDF71x	ENDF/B-VII.1	2006	1200.0	81501	2656	20.0	no	no	no	no	yes	
44096.714nc	95.0837	ENDF71x	ENDF/B-VII.1	2006	2500.0	81480	2653	20.0	no	no	no	no	yes	
44096.715nc	95.0837	ENDF71x	ENDF/B-VII.1	2006	0.1	81404	2642	20.0	no	no	no	no	yes	
44096.716nc	95.0837	ENDF71x	ENDF/B-VII.1	2006	250.0	81438	2647	20.0	no	no	no	no	yes	
Ru-98														
44098.80c	97.0642	ENDF71x	ENDF/B-VII.1	2006	293.6	81026	2587	20.0	no	no	no	no	yes	
44098.81c	97.0642	ENDF71x	ENDF/B-VII.1	2006	600.0	81067	2593	20.0	no	no	no	no	yes	
44098.82c	97.0642	ENDF71x	ENDF/B-VII.1	2006	900.0	81089	2596	20.0	no	no	no	no	yes	
44098.83c	97.0642	ENDF71x	ENDF/B-VII.1	2006	1200.0	81104	2598	20.0	no	no	no	no	yes	
44098.84c	97.0642	ENDF71x	ENDF/B-VII.1	2006	2500.0	81096	2597	20.0	no	no	no	no	yes	
44098.85c	97.0642	ENDF71x	ENDF/B-VII.1	2006	0.1	80921	2572	20.0	no	no	no	no	yes	
44098.86c	97.0642	ENDF71x	ENDF/B-VII.1	2006	250.0	81047	2590	20.0	no	no	no	no	yes	
44098.70c	97.0642	endf70d	ENDF/B-VII.0	2006	293.6	80758	2634	20	no	no	no	no	yes	
44098.71c	97.0642	endf70d	ENDF/B-VII.0	2006	600	80800	2640	20	no	no	no	no	yes	
44098.72c	97.0642	endf70d	ENDF/B-VII.0	2006	900	80821	2643	20	no	no	no	no	yes	
44098.73c	97.0642	endf70d	ENDF/B-VII.0	2006	1200	80837	2645	20	no	no	no	no	yes	
44098.74c	97.0642	endf70d	ENDF/B-VII.0	2006	2500	80828	2644	20	no	no	no	no	yes	
44098.710nc	97.0642	ENDF71x	ENDF/B-VII.1	2006	293.6	81026	2587	20.0	no	no	no	no	yes	
44098.711nc	97.0642	ENDF71x	ENDF/B-VII.1	2006	600.0	81067	2593	20.0	no	no	no	no	yes	
44098.712nc	97.0642	ENDF71x	ENDF/B-VII.1	2006	900.0	81089	2596	20.0	no	no	no	no	yes	
44098.713nc	97.0642	ENDF71x	ENDF/B-VII.1	2006	1200.0	81104	2598	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
44098.714nc	97.0642	ENDF71x	ENDF/B-VII.1	2006	2500.0	81096	2597	20.0	no	no	no	no	yes	
44098.715nc	97.0642	ENDF71x	ENDF/B-VII.1	2006	0.1	80921	2572	20.0	no	no	no	no	yes	
44098.716nc	97.0642	ENDF71x	ENDF/B-VII.1	2006	250.0	81047	2590	20.0	no	no	no	no	yes	
Ru-99														
44099.80c	98.0562	ENDF71x	ENDF/B-VII.1	2006	293.6	138627	12186	20.0	no	no	no	no	yes	
44099.81c	98.0562	ENDF71x	ENDF/B-VII.1	2006	600.0	134036	11530	20.0	no	no	no	no	yes	
44099.82c	98.0562	ENDF71x	ENDF/B-VII.1	2006	900.0	130831	11072	20.0	no	no	no	no	yes	
44099.83c	98.0562	ENDF71x	ENDF/B-VII.1	2006	1200.0	128911	10798	20.0	no	no	no	no	yes	
44099.84c	98.0562	ENDF71x	ENDF/B-VII.1	2006	2500.0	123606	10040	20.0	no	no	no	no	yes	
44099.85c	98.0562	ENDF71x	ENDF/B-VII.1	2006	0.1	156801	14782	20.0	no	no	no	no	yes	
44099.86c	98.0562	ENDF71x	ENDF/B-VII.1	2006	250.0	139370	12292	20.0	no	no	no	no	yes	
44099.70c	98.0562	endf70d	ENDF/B-VII.0	2006	293.6	138675	12235	20	no	no	no	no	yes	
44099.71c	98.0562	endf70d	ENDF/B-VII.0	2006	600	134084	11579	20	no	no	no	no	yes	
44099.72c	98.0562	endf70d	ENDF/B-VII.0	2006	900	130879	11121	20	no	no	no	no	yes	
44099.73c	98.0562	endf70d	ENDF/B-VII.0	2006	1200	128959	10847	20	no	no	no	no	yes	
44099.74c	98.0562	endf70d	ENDF/B-VII.0	2006	2500	123654	10089	20	no	no	no	no	yes	
44099.710nc	98.0562	ENDF71x	ENDF/B-VII.1	2006	293.6	138627	12186	20.0	no	no	no	no	yes	
44099.711nc	98.0562	ENDF71x	ENDF/B-VII.1	2006	600.0	134036	11530	20.0	no	no	no	no	yes	
44099.712nc	98.0562	ENDF71x	ENDF/B-VII.1	2006	900.0	130831	11072	20.0	no	no	no	no	yes	
44099.713nc	98.0562	ENDF71x	ENDF/B-VII.1	2006	1200.0	128911	10798	20.0	no	no	no	no	yes	
44099.714nc	98.0562	ENDF71x	ENDF/B-VII.1	2006	2500.0	123606	10040	20.0	no	no	no	no	yes	
44099.715nc	98.0562	ENDF71x	ENDF/B-VII.1	2006	0.1	156801	14782	20.0	no	no	no	no	yes	
44099.716nc	98.0562	ENDF71x	ENDF/B-VII.1	2006	250.0	139370	12292	20.0	no	no	no	no	yes	
Ru-100														
44100.80c	99.046	ENDF71x	ENDF/B-VII.1	2006	293.6	176704	15732	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
44100.81c	99.046	ENDF71x	ENDF/B-VII.1	2006	600.0	171454	14982	20.0	no	no	no	no	yes	
44100.82c	99.046	ENDF71x	ENDF/B-VII.1	2006	900.0	169074	14642	20.0	no	no	no	no	yes	
44100.83c	99.046	ENDF71x	ENDF/B-VII.1	2006	1200.0	167226	14378	20.0	no	no	no	no	yes	
44100.84c	99.046	ENDF71x	ENDF/B-VII.1	2006	2500.0	160409	13404	20.0	no	no	no	no	yes	
44100.85c	99.046	ENDF71x	ENDF/B-VII.1	2006	0.1	213356	20968	20.0	no	no	no	no	yes	
44100.86c	99.046	ENDF71x	ENDF/B-VII.1	2006	250.0	177243	15809	20.0	no	no	no	no	yes	
44100.70c	99.046	endf70d	ENDF/B-VII.0	2006	293.6	176980	15773	20	no	no	no	no	yes	
44100.71c	99.046	endf70d	ENDF/B-VII.0	2006	600	171730	15023	20	no	no	no	no	yes	
44100.72c	99.046	endf70d	ENDF/B-VII.0	2006	900	169350	14683	20	no	no	no	no	yes	
44100.73c	99.046	endf70d	ENDF/B-VII.0	2006	1200	167502	14419	20	no	no	no	no	yes	
44100.74c	99.046	endf70d	ENDF/B-VII.0	2006	2500	160685	13445	20	no	no	no	no	yes	
44100.710nc	99.046	ENDF71x	ENDF/B-VII.1	2006	293.6	176704	15732	20.0	no	no	no	no	yes	
44100.711nc	99.046	ENDF71x	ENDF/B-VII.1	2006	600.0	171454	14982	20.0	no	no	no	no	yes	
44100.712nc	99.046	ENDF71x	ENDF/B-VII.1	2006	900.0	169074	14642	20.0	no	no	no	no	yes	
44100.713nc	99.046	ENDF71x	ENDF/B-VII.1	2006	1200.0	167226	14378	20.0	no	no	no	no	yes	
44100.714nc	99.046	ENDF71x	ENDF/B-VII.1	2006	2500.0	160409	13404	20.0	no	no	no	no	yes	
44100.715nc	99.046	ENDF71x	ENDF/B-VII.1	2006	0.1	213356	20968	20.0	no	no	no	no	yes	
44100.716nc	99.046	ENDF71x	ENDF/B-VII.1	2006	250.0	177243	15809	20.0	no	no	no	no	yes	
Ru-101														
44101.80c	100.039	ENDF71x	ENDF/B-VII.1	2006	293.6	310880	10954	20.0	yes	no	yes	no	yes	
44101.81c	100.039	ENDF71x	ENDF/B-VII.1	2006	600.0	304608	10170	20.0	yes	no	yes	no	yes	
44101.82c	100.039	ENDF71x	ENDF/B-VII.1	2006	900.0	301272	9753	20.0	yes	no	yes	no	yes	
44101.83c	100.039	ENDF71x	ENDF/B-VII.1	2006	1200.0	299024	9472	20.0	yes	no	yes	no	yes	
44101.84c	100.039	ENDF71x	ENDF/B-VII.1	2006	2500.0	291177	8491	20.0	yes	no	yes	no	yes	
44101.85c	100.039	ENDF71x	ENDF/B-VII.1	2006	0.1	334864	13952	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
44101.86c	100.039	ENDF71x	ENDF/B-VII.1	2006	250.0	312568	11165	20.0	yes	no	yes	no	yes	
44101.70c	100.039	endf70d	ENDF/B-VII.0	2006	293.6	311591	11072	20	yes	no	yes	no	yes	
44101.71c	100.039	endf70d	ENDF/B-VII.0	2006	600	305319	10288	20	yes	no	yes	no	yes	
44101.72c	100.039	endf70d	ENDF/B-VII.0	2006	900	301983	9871	20	yes	no	yes	no	yes	
44101.73c	100.039	endf70d	ENDF/B-VII.0	2006	1200	299735	9590	20	yes	no	yes	no	yes	
44101.74c	100.039	endf70d	ENDF/B-VII.0	2006	2500	291888	8609	20	yes	no	yes	no	yes	
44101.50c	100.039	kidman	ENDF/B-V.0	1980	293.6	5299	543	20	no	no	no	no	no	
44101.710nc	100.039	ENDF71x	ENDF/B-VII.1	2006	293.6	310880	10954	20.0	yes	no	yes	no	yes	
44101.711nc	100.039	ENDF71x	ENDF/B-VII.1	2006	600.0	304608	10170	20.0	yes	no	yes	no	yes	
44101.712nc	100.039	ENDF71x	ENDF/B-VII.1	2006	900.0	301272	9753	20.0	yes	no	yes	no	yes	
44101.713nc	100.039	ENDF71x	ENDF/B-VII.1	2006	1200.0	299024	9472	20.0	yes	no	yes	no	yes	
44101.714nc	100.039	ENDF71x	ENDF/B-VII.1	2006	2500.0	291177	8491	20.0	yes	no	yes	no	yes	
44101.715nc	100.039	ENDF71x	ENDF/B-VII.1	2006	0.1	334864	13952	20.0	yes	no	yes	no	yes	
44101.716nc	100.039	ENDF71x	ENDF/B-VII.1	2006	250.0	312568	11165	20.0	yes	no	yes	no	yes	
Ru-102														
44102.80c	101.03	ENDF71x	ENDF/B-VII.1	2006	293.6	204378	21480	20.0	no	no	no	no	yes	
44102.81c	101.03	ENDF71x	ENDF/B-VII.1	2006	600.0	196323	20329	20.0	no	no	no	no	yes	
44102.82c	101.03	ENDF71x	ENDF/B-VII.1	2006	900.0	191079	19580	20.0	no	no	no	no	yes	
44102.83c	101.03	ENDF71x	ENDF/B-VII.1	2006	1200.0	188434	19202	20.0	no	no	no	no	yes	
44102.84c	101.03	ENDF71x	ENDF/B-VII.1	2006	2500.0	177945	17704	20.0	no	no	no	no	yes	
44102.85c	101.03	ENDF71x	ENDF/B-VII.1	2006	0.1	268197	30597	20.0	no	no	no	no	yes	
44102.86c	101.03	ENDF71x	ENDF/B-VII.1	2006	250.0	206032	21716	20.0	no	no	no	no	yes	
44102.70c	101.03	endf70d	ENDF/B-VII.0	2006	293.6	204496	21537	20	no	no	no	no	yes	
44102.71c	101.03	endf70d	ENDF/B-VII.0	2006	600	196441	20386	20	no	no	no	no	yes	
44102.72c	101.03	endf70d	ENDF/B-VII.0	2006	900	191197	19637	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
44102.73c	101.03	endf70d	ENDF/B-VII.0	2006	1200	188552	19259	20	no	no	no	no	yes	
44102.74c	101.03	endf70d	ENDF/B-VII.0	2006	2500	178063	17761	20	no	no	no	no	yes	
44102.710nc	101.03	ENDF71x	ENDF/B-VII.1	2006	293.6	204378	21480	20.0	no	no	no	no	yes	
44102.711nc	101.03	ENDF71x	ENDF/B-VII.1	2006	600.0	196323	20329	20.0	no	no	no	no	yes	
44102.712nc	101.03	ENDF71x	ENDF/B-VII.1	2006	900.0	191079	19580	20.0	no	no	no	no	yes	
44102.713nc	101.03	ENDF71x	ENDF/B-VII.1	2006	1200.0	188434	19202	20.0	no	no	no	no	yes	
44102.714nc	101.03	ENDF71x	ENDF/B-VII.1	2006	2500.0	177945	17704	20.0	no	no	no	no	yes	
44102.715nc	101.03	ENDF71x	ENDF/B-VII.1	2006	0.1	268197	30597	20.0	no	no	no	no	yes	
44102.716nc	101.03	ENDF71x	ENDF/B-VII.1	2006	250.0	206032	21716	20.0	no	no	no	no	yes	
Ru-103														
44103.80c	102.02	ENDF71x	ENDF/B-VII.1	2006	293.6	113961	3191	20.0	no	no	no	no	yes	
44103.81c	102.02	ENDF71x	ENDF/B-VII.1	2006	600.0	113085	3066	20.0	no	no	no	no	yes	
44103.82c	102.02	ENDF71x	ENDF/B-VII.1	2006	900.0	112491	2981	20.0	no	no	no	no	yes	
44103.83c	102.02	ENDF71x	ENDF/B-VII.1	2006	1200.0	112147	2932	20.0	no	no	no	no	yes	
44103.84c	102.02	ENDF71x	ENDF/B-VII.1	2006	2500.0	111574	2850	20.0	no	no	no	no	yes	
44103.85c	102.02	ENDF71x	ENDF/B-VII.1	2006	0.1	115284	3380	20.0	no	no	no	no	yes	
44103.86c	102.02	ENDF71x	ENDF/B-VII.1	2006	250.0	114128	3215	20.0	no	no	no	no	yes	
44103.70c	102.02	endf70d	ENDF/B-VII.0	2006	293.6	112910	3269	20	no	no	no	no	yes	
44103.71c	102.02	endf70d	ENDF/B-VII.0	2006	600	112034	3144	20	no	no	no	no	yes	
44103.72c	102.02	endf70d	ENDF/B-VII.0	2006	900	111440	3059	20	no	no	no	no	yes	
44103.73c	102.02	endf70d	ENDF/B-VII.0	2006	1200	111096	3010	20	no	no	no	no	yes	
44103.74c	102.02	endf70d	ENDF/B-VII.0	2006	2500	110523	2928	20	no	no	no	no	yes	
44103.50c	102.022	kidman	ENDF/B-V.0	1974	293.6	3052	235	20	no	no	no	no	no	
44103.710nc	102.02	ENDF71x	ENDF/B-VII.1	2006	293.6	113961	3191	20.0	no	no	no	no	yes	
44103.711nc	102.02	ENDF71x	ENDF/B-VII.1	2006	600.0	113085	3066	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
44103.712nc	102.02	ENDF71x	ENDF/B-VII.1	2006	900.0	112491	2981	20.0	no	no	no	no	yes	
44103.713nc	102.02	ENDF71x	ENDF/B-VII.1	2006	1200.0	112147	2932	20.0	no	no	no	no	yes	
44103.714nc	102.02	ENDF71x	ENDF/B-VII.1	2006	2500.0	111574	2850	20.0	no	no	no	no	yes	
44103.715nc	102.02	ENDF71x	ENDF/B-VII.1	2006	0.1	115284	3380	20.0	no	no	no	no	yes	
44103.716nc	102.02	ENDF71x	ENDF/B-VII.1	2006	250.0	114128	3215	20.0	no	no	no	no	yes	
Ru-104														
44104.80c	103.01	ENDF71x	ENDF/B-VII.1	2006	293.6	177579	18424	20.0	no	no	no	no	yes	
44104.81c	103.01	ENDF71x	ENDF/B-VII.1	2006	600.0	172371	17680	20.0	no	no	no	no	yes	
44104.82c	103.01	ENDF71x	ENDF/B-VII.1	2006	900.0	168765	17165	20.0	no	no	no	no	yes	
44104.83c	103.01	ENDF71x	ENDF/B-VII.1	2006	1200.0	166442	16833	20.0	no	no	no	no	yes	
44104.84c	103.01	ENDF71x	ENDF/B-VII.1	2006	2500.0	160281	15953	20.0	no	no	no	no	yes	
44104.85c	103.01	ENDF71x	ENDF/B-VII.1	2006	0.1	230135	25932	20.0	no	no	no	no	yes	
44104.86c	103.01	ENDF71x	ENDF/B-VII.1	2006	250.0	178978	18624	20.0	no	no	no	no	yes	
44104.70c	103.01	endf70d	ENDF/B-VII.0	2006	293.6	177676	18459	20	no	no	no	no	yes	
44104.71c	103.01	endf70d	ENDF/B-VII.0	2006	600	172468	17715	20	no	no	no	no	yes	
44104.72c	103.01	endf70d	ENDF/B-VII.0	2006	900	168862	17200	20	no	no	no	no	yes	
44104.73c	103.01	endf70d	ENDF/B-VII.0	2006	1200	166539	16868	20	no	no	no	no	yes	
44104.74c	103.01	endf70d	ENDF/B-VII.0	2006	2500	160378	15988	20	no	no	no	no	yes	
44104.710nc	103.01	ENDF71x	ENDF/B-VII.1	2006	293.6	177579	18424	20.0	no	no	no	no	yes	
44104.711nc	103.01	ENDF71x	ENDF/B-VII.1	2006	600.0	172371	17680	20.0	no	no	no	no	yes	
44104.712nc	103.01	ENDF71x	ENDF/B-VII.1	2006	900.0	168765	17165	20.0	no	no	no	no	yes	
44104.713nc	103.01	ENDF71x	ENDF/B-VII.1	2006	1200.0	166442	16833	20.0	no	no	no	no	yes	
44104.714nc	103.01	ENDF71x	ENDF/B-VII.1	2006	2500.0	160281	15953	20.0	no	no	no	no	yes	
44104.715nc	103.01	ENDF71x	ENDF/B-VII.1	2006	0.1	230135	25932	20.0	no	no	no	no	yes	
44104.716nc	103.01	ENDF71x	ENDF/B-VII.1	2006	250.0	178978	18624	20.0	no	no	no	no	yes	

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
Ru-105														
44105.80c	104.01	ENDF71x	ENDF/B-VII.1	2006	293.6	56413	692	20.0	no	no	no	no	no	
44105.81c	104.01	ENDF71x	ENDF/B-VII.1	2006	600.0	56432	695	20.0	no	no	no	no	no	
44105.82c	104.01	ENDF71x	ENDF/B-VII.1	2006	900.0	56468	700	20.0	no	no	no	no	no	
44105.83c	104.01	ENDF71x	ENDF/B-VII.1	2006	1200.0	56482	702	20.0	no	no	no	no	no	
44105.84c	104.01	ENDF71x	ENDF/B-VII.1	2006	2500.0	56551	712	20.0	no	no	no	no	no	
44105.85c	104.01	ENDF71x	ENDF/B-VII.1	2006	0.1	56174	658	20.0	no	no	no	no	no	
44105.86c	104.01	ENDF71x	ENDF/B-VII.1	2006	250.0	56440	696	20.0	no	no	no	no	no	
44105.70c	104.01	endf70d	ENDF/B-VII.0	2006	293.6	56413	692	20	no	no	no	no	no	
44105.71c	104.01	endf70d	ENDF/B-VII.0	2006	600	56432	695	20	no	no	no	no	no	
44105.72c	104.01	endf70d	ENDF/B-VII.0	2006	900	56468	700	20	no	no	no	no	no	
44105.73c	104.01	endf70d	ENDF/B-VII.0	2006	1200	56482	702	20	no	no	no	no	no	
44105.74c	104.01	endf70d	ENDF/B-VII.0	2006	2500	56551	712	20	no	no	no	no	no	
44105.710nc	104.01	ENDF71x	ENDF/B-VII.1	2006	293.6	56413	692	20.0	no	no	no	no	no	
44105.711nc	104.01	ENDF71x	ENDF/B-VII.1	2006	600.0	56432	695	20.0	no	no	no	no	no	
44105.712nc	104.01	ENDF71x	ENDF/B-VII.1	2006	900.0	56468	700	20.0	no	no	no	no	no	
44105.713nc	104.01	ENDF71x	ENDF/B-VII.1	2006	1200.0	56482	702	20.0	no	no	no	no	no	
44105.714nc	104.01	ENDF71x	ENDF/B-VII.1	2006	2500.0	56551	712	20.0	no	no	no	no	no	
44105.715nc	104.01	ENDF71x	ENDF/B-VII.1	2006	0.1	56174	658	20.0	no	no	no	no	no	
44105.716nc	104.01	ENDF71x	ENDF/B-VII.1	2006	250.0	56440	696	20.0	no	no	no	no	no	
Ru-106														
44106.80c	104.997	ENDF71x	ENDF/B-VII.1	2006	293.6	44028	2044	20.0	no	no	no	no	yes	
44106.81c	104.997	ENDF71x	ENDF/B-VII.1	2006	600.0	43978	2037	20.0	no	no	no	no	yes	
44106.82c	104.997	ENDF71x	ENDF/B-VII.1	2006	900.0	44007	2041	20.0	no	no	no	no	yes	
44106.83c	104.997	ENDF71x	ENDF/B-VII.1	2006	1200.0	44048	2047	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
44106.84c	104.997	ENDF71x	ENDF/B-VII.1	2006	2500.0	43979	2037	20.0	no	no	no	no	yes	
44106.85c	104.997	ENDF71x	ENDF/B-VII.1	2006	0.1	44029	2044	20.0	no	no	no	no	yes	
44106.86c	104.997	ENDF71x	ENDF/B-VII.1	2006	250.0	44027	2044	20.0	no	no	no	no	yes	
44106.70c	104.997	endf70d	ENDF/B-VII.0	2006	293.6	43865	2070	20	no	no	no	no	yes	
44106.71c	104.997	endf70d	ENDF/B-VII.0	2006	600	43815	2063	20	no	no	no	no	yes	
44106.72c	104.997	endf70d	ENDF/B-VII.0	2006	900	43844	2067	20	no	no	no	no	yes	
44106.73c	104.997	endf70d	ENDF/B-VII.0	2006	1200	43885	2073	20	no	no	no	no	yes	
44106.74c	104.997	endf70d	ENDF/B-VII.0	2006	2500	43816	2063	20	no	no	no	no	yes	
44106.710nc	104.997	ENDF71x	ENDF/B-VII.1	2006	293.6	44028	2044	20.0	no	no	no	no	yes	
44106.711nc	104.997	ENDF71x	ENDF/B-VII.1	2006	600.0	43978	2037	20.0	no	no	no	no	yes	
44106.712nc	104.997	ENDF71x	ENDF/B-VII.1	2006	900.0	44007	2041	20.0	no	no	no	no	yes	
44106.713nc	104.997	ENDF71x	ENDF/B-VII.1	2006	1200.0	44048	2047	20.0	no	no	no	no	yes	
44106.714nc	104.997	ENDF71x	ENDF/B-VII.1	2006	2500.0	43979	2037	20.0	no	no	no	no	yes	
44106.715nc	104.997	ENDF71x	ENDF/B-VII.1	2006	0.1	44029	2044	20.0	no	no	no	no	yes	
44106.716nc	104.997	ENDF71x	ENDF/B-VII.1	2006	250.0	44027	2044	20.0	no	no	no	no	yes	
				Z = 45, rhodium										
Rh-103														
45103.80c	102.021	ENDF71x	ENDF/B-VII.1	2010	293.6	478459	34416	20.0	yes	no	yes	no	yes	
45103.81c	102.021	ENDF71x	ENDF/B-VII.1	2010	600.0	452155	31128	20.0	yes	no	yes	no	yes	
45103.82c	102.021	ENDF71x	ENDF/B-VII.1	2010	900.0	435291	29020	20.0	yes	no	yes	no	yes	
45103.83c	102.021	ENDF71x	ENDF/B-VII.1	2010	1200.0	424340	27651	20.0	yes	no	yes	no	yes	
45103.84c	102.021	ENDF71x	ENDF/B-VII.1	2010	2500.0	392067	23617	20.0	yes	no	yes	no	yes	
45103.85c	102.021	ENDF71x	ENDF/B-VII.1	2010	0.1	631580	53556	20.0	yes	no	yes	no	yes	
45103.86c	102.021	ENDF71x	ENDF/B-VII.1	2010	250.0	484172	35130	20.0	yes	no	yes	no	yes	
45103.70c	102.021	endf70d	ENDF/B-VII.0	2006	293.6	474377	33956	20	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
45103.71c	102.021	endf70d	ENDF/B-VII.0	2006	600	448177	30681	20	yes	no	yes	no	yes	
45103.72c	102.021	endf70d	ENDF/B-VII.0	2006	900	432305	28697	20	yes	no	yes	no	yes	
45103.73c	102.021	endf70d	ENDF/B-VII.0	2006	1200	421202	27309	20	yes	no	yes	no	yes	
45103.74c	102.021	endf70d	ENDF/B-VII.0	2006	2500	389785	23382	20	yes	no	yes	no	yes	
45103.66c	102.021	endf66b	ENDF/B-VI.0	1978	293.6	116685	15401	20	no	no	no	no	yes	
45103.65c	102.021	endf66e	ENDF/B-VI.0	1978	3000.1	83883	10715	20	no	no	no	no	yes	
45103.50c	102.021	rmccsa	ENDF/B-V.0	1978	293.6	18870	2608	20	no	no	no	no	no	
45103.710nc	102.021	ENDF71x	ENDF/B-VII.1	2010	293.6	478459	34416	20.0	yes	no	yes	no	yes	
45103.711nc	102.021	ENDF71x	ENDF/B-VII.1	2010	600.0	452155	31128	20.0	yes	no	yes	no	yes	
45103.712nc	102.021	ENDF71x	ENDF/B-VII.1	2010	900.0	435291	29020	20.0	yes	no	yes	no	yes	
45103.713nc	102.021	ENDF71x	ENDF/B-VII.1	2010	1200.0	424340	27651	20.0	yes	no	yes	no	yes	
45103.714nc	102.021	ENDF71x	ENDF/B-VII.1	2010	2500.0	392067	23617	20.0	yes	no	yes	no	yes	
45103.715nc	102.021	ENDF71x	ENDF/B-VII.1	2010	0.1	631580	53556	20.0	yes	no	yes	no	yes	
45103.716nc	102.021	ENDF71x	ENDF/B-VII.1	2010	250.0	484172	35130	20.0	yes	no	yes	no	yes	
Rh-105														
45105.80c	104.0	ENDF71x	ENDF/B-VII.1	2006	293.6	62548	801	20.0	no	no	no	no	yes	
45105.81c	104.0	ENDF71x	ENDF/B-VII.1	2006	600.0	62528	798	20.0	no	no	no	no	yes	
45105.82c	104.0	ENDF71x	ENDF/B-VII.1	2006	900.0	62505	795	20.0	no	no	no	no	yes	
45105.83c	104.0	ENDF71x	ENDF/B-VII.1	2006	1200.0	62464	789	20.0	no	no	no	no	yes	
45105.84c	104.0	ENDF71x	ENDF/B-VII.1	2006	2500.0	62444	786	20.0	no	no	no	no	yes	
45105.85c	104.0	ENDF71x	ENDF/B-VII.1	2006	0.1	62611	810	20.0	no	no	no	no	yes	
45105.86c	104.0	ENDF71x	ENDF/B-VII.1	2006	250.0	62561	803	20.0	no	no	no	no	yes	
45105.70c	104	endf70d	ENDF/B-VII.0	2006	293.6	62576	898	20	no	no	no	no	yes	
45105.71c	104	endf70d	ENDF/B-VII.0	2006	600	62556	895	20	no	no	no	no	yes	
45105.72c	104	endf70d	ENDF/B-VII.0	2006	900	62533	892	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
45105.73c	104	endf70d	ENDF/B-VII.0	2006	1200	62492	886	20	no	no	no	no	yes	
45105.74c	104	endf70d	ENDF/B-VII.0	2006	2500	62472	883	20	no	no	no	no	yes	
45105.50c	104.005	kidman	ENDF/B-V.0	1974	293.6	1591	213	20	no	no	no	no	no	
45105.710nc	104.0	ENDF71x	ENDF/B-VII.1	2006	293.6	62548	801	20.0	no	no	no	no	yes	
45105.711nc	104.0	ENDF71x	ENDF/B-VII.1	2006	600.0	62528	798	20.0	no	no	no	no	yes	
45105.712nc	104.0	ENDF71x	ENDF/B-VII.1	2006	900.0	62505	795	20.0	no	no	no	no	yes	
45105.713nc	104.0	ENDF71x	ENDF/B-VII.1	2006	1200.0	62464	789	20.0	no	no	no	no	yes	
45105.714nc	104.0	ENDF71x	ENDF/B-VII.1	2006	2500.0	62444	786	20.0	no	no	no	no	yes	
45105.715nc	104.0	ENDF71x	ENDF/B-VII.1	2006	0.1	62611	810	20.0	no	no	no	no	yes	
45105.716nc	104.0	ENDF71x	ENDF/B-VII.1	2006	250.0	62561	803	20.0	no	no	no	no	yes	
Rh-117														
45117.90c	115.5446	rmccs	LANL/T	1982	293.6	10314	399	20	yes	no	no	no	no	17
Z = 46, palladium														
Pd-102														
46102.80c	101.0302	ENDF71x	ENDF/B-VII.1	2006	293.6	198978	2004	30.0	yes	no	yes	no	no	
46102.81c	101.0302	ENDF71x	ENDF/B-VII.1	2006	600.0	197229	1958	30.0	yes	no	yes	no	no	
46102.82c	101.0302	ENDF71x	ENDF/B-VII.1	2006	900.0	195063	1901	30.0	yes	no	yes	no	no	
46102.83c	101.0302	ENDF71x	ENDF/B-VII.1	2006	1200.0	194114	1876	30.0	yes	no	yes	no	no	
46102.84c	101.0302	ENDF71x	ENDF/B-VII.1	2006	2500.0	193467	1859	30.0	yes	no	yes	no	no	
46102.85c	101.0302	ENDF71x	ENDF/B-VII.1	2006	0.1	207527	2229	30.0	yes	no	yes	no	no	
46102.86c	101.0302	ENDF71x	ENDF/B-VII.1	2006	250.0	198977	2004	30.0	yes	no	yes	no	no	
46102.70c	101.0302	endf70d	ENDF/B-VII.0	2006	293.6	202748	2102	30	yes	no	yes	no	no	
46102.71c	101.0302	endf70d	ENDF/B-VII.0	2006	600	201001	2056	30	yes	no	yes	no	no	
46102.72c	101.0302	endf70d	ENDF/B-VII.0	2006	900	198833	1999	30	yes	no	yes	no	no	
46102.73c	101.0302	endf70d	ENDF/B-VII.0	2006	1200	197885	1974	30	yes	no	yes	no	no	

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
46102.74c	101.0302	endf70d	ENDF/B-VII.0	2006	2500	197237	1957	30	yes	no	yes	no	no	
46102.66c	101.0302	endf66b	ENDF/B-VI.5	1996	293.6	148683	659	30	yes	no	yes	no	no	
46102.710nc	101.0302	ENDF71x	ENDF/B-VII.1	2006	293.6	198978	2004	30.0	yes	no	yes	no	no	
46102.711nc	101.0302	ENDF71x	ENDF/B-VII.1	2006	600.0	197229	1958	30.0	yes	no	yes	no	no	
46102.712nc	101.0302	ENDF71x	ENDF/B-VII.1	2006	900.0	195063	1901	30.0	yes	no	yes	no	no	
46102.713nc	101.0302	ENDF71x	ENDF/B-VII.1	2006	1200.0	194114	1876	30.0	yes	no	yes	no	no	
46102.714nc	101.0302	ENDF71x	ENDF/B-VII.1	2006	2500.0	193467	1859	30.0	yes	no	yes	no	no	
46102.715nc	101.0302	ENDF71x	ENDF/B-VII.1	2006	0.1	207527	2229	30.0	yes	no	yes	no	no	
46102.716nc	101.0302	ENDF71x	ENDF/B-VII.1	2006	250.0	198977	2004	30.0	yes	no	yes	no	no	
Pd-104														
46104.80c	103.0114	ENDF71x	ENDF/B-VII.1	2006	293.6	709300	18013	30.0	yes	no	yes	no	no	
46104.81c	103.0114	ENDF71x	ENDF/B-VII.1	2006	600.0	669995	16817	30.0	yes	no	yes	no	no	
46104.82c	103.0114	ENDF71x	ENDF/B-VII.1	2006	900.0	651317	16251	30.0	yes	no	yes	no	no	
46104.83c	103.0114	ENDF71x	ENDF/B-VII.1	2006	1200.0	637028	15818	30.0	yes	no	yes	no	no	
46104.84c	103.0114	ENDF71x	ENDF/B-VII.1	2006	2500.0	593072	14486	30.0	yes	no	yes	no	no	
46104.85c	103.0114	ENDF71x	ENDF/B-VII.1	2006	0.1	969324	25898	30.0	yes	no	yes	no	no	
46104.86c	103.0114	ENDF71x	ENDF/B-VII.1	2006	250.0	717189	18257	30.0	yes	no	yes	no	no	
46104.70c	103.0114	endf70d	ENDF/B-VII.0	2006	293.6	711446	18078	30	yes	no	yes	no	no	
46104.71c	103.0114	endf70d	ENDF/B-VII.0	2006	600	672142	16882	30	yes	no	yes	no	no	
46104.72c	103.0114	endf70d	ENDF/B-VII.0	2006	900	653530	16318	30	yes	no	yes	no	no	
46104.73c	103.0114	endf70d	ENDF/B-VII.0	2006	1200	639175	15883	30	yes	no	yes	no	no	
46104.74c	103.0114	endf70d	ENDF/B-VII.0	2006	2500	595186	14550	30	yes	no	yes	no	no	
46104.66c	103.0114	endf66b	ENDF/B-VI.5	1996	293.6	155873	1197	30	yes	no	yes	no	no	
46104.710nc	103.0114	ENDF71x	ENDF/B-VII.1	2006	293.6	709300	18013	30.0	yes	no	yes	no	no	
46104.711nc	103.0114	ENDF71x	ENDF/B-VII.1	2006	600.0	669995	16817	30.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
46104.712nc	103.0114	ENDF71x	ENDF/B-VII.1	2006	900.0	651317	16251	30.0	yes	no	yes	no	no	
46104.713nc	103.0114	ENDF71x	ENDF/B-VII.1	2006	1200.0	637028	15818	30.0	yes	no	yes	no	no	
46104.714nc	103.0114	ENDF71x	ENDF/B-VII.1	2006	2500.0	593072	14486	30.0	yes	no	yes	no	no	
46104.715nc	103.0114	ENDF71x	ENDF/B-VII.1	2006	0.1	969324	25898	30.0	yes	no	yes	no	no	
46104.716nc	103.0114	ENDF71x	ENDF/B-VII.1	2006	250.0	717189	18257	30.0	yes	no	yes	no	no	
Pd-105														
46105.80c	104.004	ENDF71x	ENDF/B-VII.1	2006	293.6	418880	30037	20.0	yes	no	yes	no	yes	
46105.81c	104.004	ENDF71x	ENDF/B-VII.1	2006	600.0	393000	26802	20.0	yes	no	yes	no	yes	
46105.82c	104.004	ENDF71x	ENDF/B-VII.1	2006	900.0	378056	24934	20.0	yes	no	yes	no	yes	
46105.83c	104.004	ENDF71x	ENDF/B-VII.1	2006	1200.0	366888	23538	20.0	yes	no	yes	no	yes	
46105.84c	104.004	ENDF71x	ENDF/B-VII.1	2006	2500.0	336256	19709	20.0	yes	no	yes	no	yes	
46105.85c	104.004	ENDF71x	ENDF/B-VII.1	2006	0.1	548224	46205	20.0	yes	no	yes	no	yes	
46105.86c	104.004	ENDF71x	ENDF/B-VII.1	2006	250.0	423561	30622	20.0	yes	no	yes	no	yes	
46105.70c	104.004	endf70d	ENDF/B-VII.0	2006	293.6	419831	30143	20	yes	no	yes	no	yes	
46105.71c	104.004	endf70d	ENDF/B-VII.0	2006	600	393951	26908	20	yes	no	yes	no	yes	
46105.72c	104.004	endf70d	ENDF/B-VII.0	2006	900	379007	25040	20	yes	no	yes	no	yes	
46105.73c	104.004	endf70d	ENDF/B-VII.0	2006	1200	367839	23644	20	yes	no	yes	no	yes	
46105.74c	104.004	endf70d	ENDF/B-VII.0	2006	2500	337207	19815	20	yes	no	yes	no	yes	
46105.66c	104.0039	endf66b	ENDF/B-VI.5	1996	293.6	634077	13480	30	yes	no	yes	no	no	
46105.50c	104.004	kidman	ENDF/B-V.0	1980	293.6	4647	505	20	no	no	no	no	no	
46105.710nc	104.004	ENDF71x	ENDF/B-VII.1	2006	293.6	418880	30037	20.0	yes	no	yes	no	yes	
46105.711nc	104.004	ENDF71x	ENDF/B-VII.1	2006	600.0	393000	26802	20.0	yes	no	yes	no	yes	
46105.712nc	104.004	ENDF71x	ENDF/B-VII.1	2006	900.0	378056	24934	20.0	yes	no	yes	no	yes	
46105.713nc	104.004	ENDF71x	ENDF/B-VII.1	2006	1200.0	366888	23538	20.0	yes	no	yes	no	yes	
46105.714nc	104.004	ENDF71x	ENDF/B-VII.1	2006	2500.0	336256	19709	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
46105.715nc	104.004	ENDF71x	ENDF/B-VII.1	2006	0.1	548224	46205	20.0	yes	no	yes	no	yes	
46105.716nc	104.004	ENDF71x	ENDF/B-VII.1	2006	250.0	423561	30622	20.0	yes	no	yes	no	yes	
Pd-106														
46106.80c	104.9937	ENDF71x	ENDF/B-VII.1	2006	293.6	589448	14533	30.0	yes	no	yes	no	no	
46106.81c	104.9937	ENDF71x	ENDF/B-VII.1	2006	600.0	567116	13856	30.0	yes	no	yes	no	no	
46106.82c	104.9937	ENDF71x	ENDF/B-VII.1	2006	900.0	552005	13391	30.0	yes	no	yes	no	no	
46106.83c	104.9937	ENDF71x	ENDF/B-VII.1	2006	1200.0	539472	12990	30.0	yes	no	yes	no	no	
46106.84c	104.9937	ENDF71x	ENDF/B-VII.1	2006	2500.0	512734	12158	30.0	yes	no	yes	no	no	
46106.85c	104.9937	ENDF71x	ENDF/B-VII.1	2006	0.1	809182	21192	30.0	yes	no	yes	no	no	
46106.86c	104.9937	ENDF71x	ENDF/B-VII.1	2006	250.0	595817	14726	30.0	yes	no	yes	no	no	
46106.70c	104.9937	endf70d	ENDF/B-VII.0	2006	293.6	591960	14609	30	yes	no	yes	no	no	
46106.71c	104.9937	endf70d	ENDF/B-VII.0	2006	600	569363	13924	30	yes	no	yes	no	no	
46106.72c	104.9937	endf70d	ENDF/B-VII.0	2006	900	554317	13461	30	yes	no	yes	no	no	
46106.73c	104.9937	endf70d	ENDF/B-VII.0	2006	1200	541587	13054	30	yes	no	yes	no	no	
46106.74c	104.9937	endf70d	ENDF/B-VII.0	2006	2500	515245	12234	30	yes	no	yes	no	no	
46106.66c	104.9937	endf66b	ENDF/B-VI.5	1996	293.6	150930	1154	30	yes	no	yes	no	no	
46106.710nc	104.9937	ENDF71x	ENDF/B-VII.1	2006	293.6	589448	14533	30.0	yes	no	yes	no	no	
46106.711nc	104.9937	ENDF71x	ENDF/B-VII.1	2006	600.0	567116	13856	30.0	yes	no	yes	no	no	
46106.712nc	104.9937	ENDF71x	ENDF/B-VII.1	2006	900.0	552005	13391	30.0	yes	no	yes	no	no	
46106.713nc	104.9937	ENDF71x	ENDF/B-VII.1	2006	1200.0	539472	12990	30.0	yes	no	yes	no	no	
46106.714nc	104.9937	ENDF71x	ENDF/B-VII.1	2006	2500.0	512734	12158	30.0	yes	no	yes	no	no	
46106.715nc	104.9937	ENDF71x	ENDF/B-VII.1	2006	0.1	809182	21192	30.0	yes	no	yes	no	no	
46106.716nc	104.9937	ENDF71x	ENDF/B-VII.1	2006	250.0	595817	14726	30.0	yes	no	yes	no	no	
Pd-107														
46107.80c	105.987	ENDF71x	ENDF/B-VII.1	2006	293.6	178652	16090	20.0	no	no	no	no	yes	

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
46107.81c	105.987	ENDF71x	ENDF/B-VII.1	2006	600.0	171691	15096	20.0	no	no	no	no	yes	
46107.82c	105.987	ENDF71x	ENDF/B-VII.1	2006	900.0	167386	14481	20.0	no	no	no	no	yes	
46107.83c	105.987	ENDF71x	ENDF/B-VII.1	2006	1200.0	164230	14030	20.0	no	no	no	no	yes	
46107.84c	105.987	ENDF71x	ENDF/B-VII.1	2006	2500.0	154465	12635	20.0	no	no	no	no	yes	
46107.85c	105.987	ENDF71x	ENDF/B-VII.1	2006	0.1	209428	20487	20.0	no	no	no	no	yes	
46107.86c	105.987	ENDF71x	ENDF/B-VII.1	2006	250.0	180282	16323	20.0	no	no	no	no	yes	
46107.70c	105.987	endf70d	ENDF/B-VII.0	2006	293.6	178630	16132	20	no	no	no	no	yes	
46107.71c	105.987	endf70d	ENDF/B-VII.0	2006	600	171669	15138	20	no	no	no	no	yes	
46107.72c	105.987	endf70d	ENDF/B-VII.0	2006	900	167364	14523	20	no	no	no	no	yes	
46107.73c	105.987	endf70d	ENDF/B-VII.0	2006	1200	164208	14072	20	no	no	no	no	yes	
46107.74c	105.987	endf70d	ENDF/B-VII.0	2006	2500	154443	12677	20	no	no	no	no	yes	
46107.710nc	105.987	ENDF71x	ENDF/B-VII.1	2006	293.6	178652	16090	20.0	no	no	no	no	yes	
46107.711nc	105.987	ENDF71x	ENDF/B-VII.1	2006	600.0	171691	15096	20.0	no	no	no	no	yes	
46107.712nc	105.987	ENDF71x	ENDF/B-VII.1	2006	900.0	167386	14481	20.0	no	no	no	no	yes	
46107.713nc	105.987	ENDF71x	ENDF/B-VII.1	2006	1200.0	164230	14030	20.0	no	no	no	no	yes	
46107.714nc	105.987	ENDF71x	ENDF/B-VII.1	2006	2500.0	154465	12635	20.0	no	no	no	no	yes	
46107.715nc	105.987	ENDF71x	ENDF/B-VII.1	2006	0.1	209428	20487	20.0	no	no	no	no	yes	
46107.716nc	105.987	ENDF71x	ENDF/B-VII.1	2006	250.0	180282	16323	20.0	no	no	no	no	yes	
Pd-108														
46108.80c	106.9769	ENDF71x	ENDF/B-VII.1	2006	293.6	578295	14598	30.0	yes	no	yes	no	no	
46108.81c	106.9769	ENDF71x	ENDF/B-VII.1	2006	600.0	552037	13802	30.0	yes	no	yes	no	no	
46108.82c	106.9769	ENDF71x	ENDF/B-VII.1	2006	900.0	541683	13488	30.0	yes	no	yes	no	no	
46108.83c	106.9769	ENDF71x	ENDF/B-VII.1	2006	1200.0	532122	13198	30.0	yes	no	yes	no	no	
46108.84c	106.9769	ENDF71x	ENDF/B-VII.1	2006	2500.0	508329	12397	30.0	yes	no	yes	no	no	
46108.85c	106.9769	ENDF71x	ENDF/B-VII.1	2006	0.1	769018	20402	30.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
46108.86c	106.9769	ENDF71x	ENDF/B-VII.1	2006	250.0	582781	14734	30.0	yes	no	yes	no	no	
46108.70c	106.9769	endf70d	ENDF/B-VII.0	2006	293.6	580743	14672	30	yes	no	yes	no	no	
46108.71c	106.9769	endf70d	ENDF/B-VII.0	2006	600	554485	13876	30	yes	no	yes	no	no	
46108.72c	106.9769	endf70d	ENDF/B-VII.0	2006	900	544129	13562	30	yes	no	yes	no	no	
46108.73c	106.9769	endf70d	ENDF/B-VII.0	2006	1200	534567	13272	30	yes	no	yes	no	no	
46108.74c	106.9769	endf70d	ENDF/B-VII.0	2006	2500	510777	12471	30	yes	no	yes	no	no	
46108.66c	106.9769	endf66b	ENDF/B-VI.5	1996	293.6	168900	1981	30	yes	no	yes	no	no	
46108.50c	106.977	kidman	ENDF/B-V.0	1980	293.6	4549	555	20	no	no	no	no	no	
46108.710nc	106.9769	ENDF71x	ENDF/B-VII.1	2006	293.6	578295	14598	30.0	yes	no	yes	no	no	
46108.711nc	106.9769	ENDF71x	ENDF/B-VII.1	2006	600.0	552037	13802	30.0	yes	no	yes	no	no	
46108.712nc	106.9769	ENDF71x	ENDF/B-VII.1	2006	900.0	541683	13488	30.0	yes	no	yes	no	no	
46108.713nc	106.9769	ENDF71x	ENDF/B-VII.1	2006	1200.0	532122	13198	30.0	yes	no	yes	no	no	
46108.714nc	106.9769	ENDF71x	ENDF/B-VII.1	2006	2500.0	508329	12397	30.0	yes	no	yes	no	no	
46108.715nc	106.9769	ENDF71x	ENDF/B-VII.1	2006	0.1	769018	20402	30.0	yes	no	yes	no	no	
46108.716nc	106.9769	ENDF71x	ENDF/B-VII.1	2006	250.0	582781	14734	30.0	yes	no	yes	no	no	
Pd-110														
46110.80c	108.961	ENDF71x	ENDF/B-VII.1	2006	293.6	529629	13348	30.0	yes	no	yes	no	no	
46110.81c	108.961	ENDF71x	ENDF/B-VII.1	2006	600.0	511180	12789	30.0	yes	no	yes	no	no	
46110.82c	108.961	ENDF71x	ENDF/B-VII.1	2006	900.0	500290	12459	30.0	yes	no	yes	no	no	
46110.83c	108.961	ENDF71x	ENDF/B-VII.1	2006	1200.0	488841	12112	30.0	yes	no	yes	no	no	
46110.84c	108.961	ENDF71x	ENDF/B-VII.1	2006	2500.0	468998	11495	30.0	yes	no	yes	no	no	
46110.85c	108.961	ENDF71x	ENDF/B-VII.1	2006	0.1	736050	19604	30.0	yes	no	yes	no	no	
46110.86c	108.961	ENDF71x	ENDF/B-VII.1	2006	250.0	533818	13475	30.0	yes	no	yes	no	no	
46110.70c	108.961	endf70d	ENDF/B-VII.0	2006	293.6	531844	13415	30	yes	no	yes	no	no	
46110.71c	108.961	endf70d	ENDF/B-VII.0	2006	600	513397	12856	30	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
46110.72c	108.961	endf70d	ENDF/B-VII.0	2006	900	502507	12526	30	yes	no	yes	no	no	
46110.73c	108.961	endf70d	ENDF/B-VII.0	2006	1200	491058	12179	30	yes	no	yes	no	no	
46110.74c	108.961	endf70d	ENDF/B-VII.0	2006	2500	471215	11562	30	yes	no	yes	no	no	
46110.66c	108.961	endf66b	ENDF/B-VI.5	1996	293.6	127359	862	30	yes	no	yes	no	no	
46110.710nc	108.961	ENDF71x	ENDF/B-VII.1	2006	293.6	529629	13348	30.0	yes	no	yes	no	no	
46110.711nc	108.961	ENDF71x	ENDF/B-VII.1	2006	600.0	511180	12789	30.0	yes	no	yes	no	no	
46110.712nc	108.961	ENDF71x	ENDF/B-VII.1	2006	900.0	500290	12459	30.0	yes	no	yes	no	no	
46110.713nc	108.961	ENDF71x	ENDF/B-VII.1	2006	1200.0	488841	12112	30.0	yes	no	yes	no	no	
46110.714nc	108.961	ENDF71x	ENDF/B-VII.1	2006	2500.0	468998	11495	30.0	yes	no	yes	no	no	
46110.715nc	108.961	ENDF71x	ENDF/B-VII.1	2006	0.1	736050	19604	30.0	yes	no	yes	no	no	
46110.716nc	108.961	ENDF71x	ENDF/B-VII.1	2006	250.0	533818	13475	30.0	yes	no	yes	no	no	
Pd-119														
46119.90c	117.5255	rmccs	LANL/T	1982	293.6	10444	407	20	yes	no	no	no	no	17
				Z = 47, silver										
Ag-0														
47000.55c	106.942	rmccsa	LANL/T	1984	293.6	29092	2350	20	yes	no	no	no	no	
Ag-107														
47107.80c	105.987	ENDF71x	ENDF/B-VII.1	2006	293.6	425726	45477	20.0	yes	no	no	no	yes	
47107.81c	105.987	ENDF71x	ENDF/B-VII.1	2006	600.0	388310	40800	20.0	yes	no	no	no	yes	
47107.82c	105.987	ENDF71x	ENDF/B-VII.1	2006	900.0	364358	37806	20.0	yes	no	no	no	yes	
47107.83c	105.987	ENDF71x	ENDF/B-VII.1	2006	1200.0	346142	35529	20.0	yes	no	no	no	yes	
47107.84c	105.987	ENDF71x	ENDF/B-VII.1	2006	2500.0	300326	29802	20.0	yes	no	no	no	yes	
47107.85c	105.987	ENDF71x	ENDF/B-VII.1	2006	0.1	636998	71886	20.0	yes	no	no	no	yes	
47107.86c	105.987	ENDF71x	ENDF/B-VII.1	2006	250.0	433358	46431	20.0	yes	no	no	no	yes	
47107.70c	105.987	endf70d	ENDF/B-VII.0	2006	293.6	425868	45545	20	yes	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
47107.71c	105.987	endf70d	ENDF/B-VII.0	2006	600	388452	40868	20	yes	no	no	no	yes	
47107.72c	105.987	endf70d	ENDF/B-VII.0	2006	900	364500	37874	20	yes	no	no	no	yes	
47107.73c	105.987	endf70d	ENDF/B-VII.0	2006	1200	346284	35597	20	yes	no	no	no	yes	
47107.74c	105.987	endf70d	ENDF/B-VII.0	2006	2500	300468	29870	20	yes	no	no	no	yes	
47107.66c	105.987	endf66b	ENDF/B-VI.0	1983	293.6	104321	13835	20	no	no	no	no	no	
47107.60c	105.987	endf60	ENDF/B-VI.0	1983	293.6	64008	10101	20	no	no	no	no	no	
47107.50c	105.987	rmccsa	ENDF/B-V.0	1978	293.6	12111	1669	20	no	no	no	no	no	
47107.42c	105.9867	endl92	LLNL	<1992	300	27108	2885	30	yes	no	no	no	no	
47107.710nc	105.987	ENDF71x	ENDF/B-VII.1	2006	293.6	425726	45477	20.0	yes	no	no	no	yes	
47107.711nc	105.987	ENDF71x	ENDF/B-VII.1	2006	600.0	388310	40800	20.0	yes	no	no	no	yes	
47107.712nc	105.987	ENDF71x	ENDF/B-VII.1	2006	900.0	364358	37806	20.0	yes	no	no	no	yes	
47107.713nc	105.987	ENDF71x	ENDF/B-VII.1	2006	1200.0	346142	35529	20.0	yes	no	no	no	yes	
47107.714nc	105.987	ENDF71x	ENDF/B-VII.1	2006	2500.0	300326	29802	20.0	yes	no	no	no	yes	
47107.715nc	105.987	ENDF71x	ENDF/B-VII.1	2006	0.1	636998	71886	20.0	yes	no	no	no	yes	
47107.716nc	105.987	ENDF71x	ENDF/B-VII.1	2006	250.0	433358	46431	20.0	yes	no	no	no	yes	
Ag-109														
47109.80c	107.969	ENDF71x	ENDF/B-VII.1	2010	293.6	586995	50726	20.0	yes	no	yes	no	yes	
47109.81c	107.969	ENDF71x	ENDF/B-VII.1	2010	600.0	544011	45353	20.0	yes	no	yes	no	yes	
47109.82c	107.969	ENDF71x	ENDF/B-VII.1	2010	900.0	516987	41975	20.0	yes	no	yes	no	yes	
47109.83c	107.969	ENDF71x	ENDF/B-VII.1	2010	1200.0	495259	39259	20.0	yes	no	yes	no	yes	
47109.84c	107.969	ENDF71x	ENDF/B-VII.1	2010	2500.0	442211	32628	20.0	yes	no	yes	no	yes	
47109.85c	107.969	ENDF71x	ENDF/B-VII.1	2010	0.1	821827	80080	20.0	yes	no	yes	no	yes	
47109.86c	107.969	ENDF71x	ENDF/B-VII.1	2010	250.0	595995	51851	20.0	yes	no	yes	no	yes	
47109.70c	107.969	endf70d	ENDF/B-VII.0	2006	293.6	500362	39846	20	yes	no	yes	no	yes	
47109.71c	107.969	endf70d	ENDF/B-VII.0	2006	600	470458	36108	20	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
47109.72c	107.969	endf70d	ENDF/B-VII.0	2006	900	451370	33722	20	yes	no	yes	no	yes	
47109.73c	107.969	endf70d	ENDF/B-VII.0	2006	1200	437170	31947	20	yes	no	yes	no	yes	
47109.74c	107.969	endf70d	ENDF/B-VII.0	2006	2500	401602	27501	20	yes	no	yes	no	yes	
47109.66c	107.969	endf66b	ENDF/B-VI.0	1983	293.6	121474	16086	20	no	no	no	no	no	
47109.60c	107.969	endf60	ENDF/B-VI.0	1983	293.6	76181	11903	20	no	no	no	no	no	
47109.50c	107.969	rmccsa	ENDF/B-V.0	1978	293.6	14585	2120	20	no	no	no	no	no	
47109.42c	107.9692	endl92	LLNL	<1992	300	33603	3796	30	yes	no	no	no	no	
47109.710nc	107.969	ENDF71x	ENDF/B-VII.1	2010	293.6	586995	50726	20.0	yes	no	yes	no	yes	
47109.711nc	107.969	ENDF71x	ENDF/B-VII.1	2010	600.0	544011	45353	20.0	yes	no	yes	no	yes	
47109.712nc	107.969	ENDF71x	ENDF/B-VII.1	2010	900.0	516987	41975	20.0	yes	no	yes	no	yes	
47109.713nc	107.969	ENDF71x	ENDF/B-VII.1	2010	1200.0	495259	39259	20.0	yes	no	yes	no	yes	
47109.714nc	107.969	ENDF71x	ENDF/B-VII.1	2010	2500.0	442211	32628	20.0	yes	no	yes	no	yes	
47109.715nc	107.969	ENDF71x	ENDF/B-VII.1	2010	0.1	821827	80080	20.0	yes	no	yes	no	yes	
47109.716nc	107.969	ENDF71x	ENDF/B-VII.1	2010	250.0	595995	51851	20.0	yes	no	yes	no	yes	
Ag-110														
1047110.710nc	108.962	ENDF71x	ENDF/B-VII.1	2006	293.6	137266	5531	20.0	no	no	no	no	yes	
1047110.711nc	108.962	ENDF71x	ENDF/B-VII.1	2006	600.0	137266	5531	20.0	no	no	no	no	yes	
1047110.712nc	108.962	ENDF71x	ENDF/B-VII.1	2006	900.0	137267	5531	20.0	no	no	no	no	yes	
1047110.713nc	108.962	ENDF71x	ENDF/B-VII.1	2006	1200.0	137268	5531	20.0	no	no	no	no	yes	
1047110.714nc	108.962	ENDF71x	ENDF/B-VII.1	2006	2500.0	137268	5531	20.0	no	no	no	no	yes	
1047110.715nc	108.962	ENDF71x	ENDF/B-VII.1	2006	0.1	137267	5531	20.0	no	no	no	no	yes	
1047110.716nc	108.962	ENDF71x	ENDF/B-VII.1	2006	250.0	137267	5531	20.0	no	no	no	no	yes	
Ag-111														
47111.80c	109.953	ENDF71x	ENDF/B-VII.1	2006	293.6	252100	13137	20.0	yes	no	yes	no	yes	
47111.81c	109.953	ENDF71x	ENDF/B-VII.1	2006	600.0	245300	12287	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
47111.82c	109.953	ENDF71x	ENDF/B-VII.1	2006	900.0	241427	11803	20.0	yes	no	yes	no	yes	
47111.83c	109.953	ENDF71x	ENDF/B-VII.1	2006	1200.0	238051	11381	20.0	yes	no	yes	no	yes	
47111.84c	109.953	ENDF71x	ENDF/B-VII.1	2006	2500.0	230699	10462	20.0	yes	no	yes	no	yes	
47111.85c	109.953	ENDF71x	ENDF/B-VII.1	2006	0.1	294571	18446	20.0	yes	no	yes	no	yes	
47111.86c	109.953	ENDF71x	ENDF/B-VII.1	2006	250.0	253451	13306	20.0	yes	no	yes	no	yes	
47111.70c	109.953	endf70d	ENDF/B-VII.0	2006	293.6	252633	13254	20	yes	no	yes	no	yes	
47111.71c	109.953	endf70d	ENDF/B-VII.0	2006	600	245833	12404	20	yes	no	yes	no	yes	
47111.72c	109.953	endf70d	ENDF/B-VII.0	2006	900	241960	11920	20	yes	no	yes	no	yes	
47111.73c	109.953	endf70d	ENDF/B-VII.0	2006	1200	238584	11498	20	yes	no	yes	no	yes	
47111.74c	109.953	endf70d	ENDF/B-VII.0	2006	2500	231232	10579	20	yes	no	yes	no	yes	
47111.710nc	109.953	ENDF71x	ENDF/B-VII.1	2006	293.6	252100	13137	20.0	yes	no	yes	no	yes	
47111.711nc	109.953	ENDF71x	ENDF/B-VII.1	2006	600.0	245300	12287	20.0	yes	no	yes	no	yes	
47111.712nc	109.953	ENDF71x	ENDF/B-VII.1	2006	900.0	241427	11803	20.0	yes	no	yes	no	yes	
47111.713nc	109.953	ENDF71x	ENDF/B-VII.1	2006	1200.0	238051	11381	20.0	yes	no	yes	no	yes	
47111.714nc	109.953	ENDF71x	ENDF/B-VII.1	2006	2500.0	230699	10462	20.0	yes	no	yes	no	yes	
47111.715nc	109.953	ENDF71x	ENDF/B-VII.1	2006	0.1	294571	18446	20.0	yes	no	yes	no	yes	
47111.716nc	109.953	ENDF71x	ENDF/B-VII.1	2006	250.0	253451	13306	20.0	yes	no	yes	no	yes	
Ag-510														
47510.80c	108.962	ENDF71x	ENDF/B-VII.1	2006	293.6	137266	5531	20.0	no	no	no	no	yes	
47510.81c	108.962	ENDF71x	ENDF/B-VII.1	2006	600.0	137266	5531	20.0	no	no	no	no	yes	
47510.82c	108.962	ENDF71x	ENDF/B-VII.1	2006	900.0	137267	5531	20.0	no	no	no	no	yes	
47510.83c	108.962	ENDF71x	ENDF/B-VII.1	2006	1200.0	137268	5531	20.0	no	no	no	no	yes	
47510.84c	108.962	ENDF71x	ENDF/B-VII.1	2006	2500.0	137268	5531	20.0	no	no	no	no	yes	
47510.85c	108.962	ENDF71x	ENDF/B-VII.1	2006	0.1	137267	5531	20.0	no	no	no	no	yes	
47510.86c	108.962	ENDF71x	ENDF/B-VII.1	2006	250.0	137267	5531	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
47510.70c	108.962	endf70d	ENDF/B-VII.0	2006	293.6	136859	5556	20	no	no	no	no	yes	
47510.71c	108.962	endf70d	ENDF/B-VII.0	2006	600	136859	5556	20	no	no	no	no	yes	
47510.72c	108.962	endf70d	ENDF/B-VII.0	2006	900	136860	5556	20	no	no	no	no	yes	
47510.73c	108.962	endf70d	ENDF/B-VII.0	2006	1200	136861	5556	20	no	no	no	no	yes	
47510.74c	108.962	endf70d	ENDF/B-VII.0	2006	2500	136861	5556	20	no	no	no	no	yes	
				Z = 48, cadmium										
Cd-0														
48000.51c	111.46	rmccs	ENDF/B-V.0	1974	293.6	6734	818	20	no	no	no	no	no	
48000.50c	111.46	endf5u	ENDF/B-V.0	1974	293.6	19714	2981	20	no	no	no	no	no	
48000.42c	111.4443	endl92	LLNL	<1992	300	211537	29369	30	yes	no	no	no	no	
Cd-106														
48106.80c	104.996	ENDF71x	ENDF/B-VII.1	2010	293.6	162067	11397	20.0	yes	no	no	no	no	
48106.81c	104.996	ENDF71x	ENDF/B-VII.1	2010	600.0	158282	10924	20.0	yes	no	no	no	no	
48106.82c	104.996	ENDF71x	ENDF/B-VII.1	2010	900.0	155635	10593	20.0	yes	no	no	no	no	
48106.83c	104.996	ENDF71x	ENDF/B-VII.1	2010	1200.0	153491	10325	20.0	yes	no	no	no	no	
48106.84c	104.996	ENDF71x	ENDF/B-VII.1	2010	2500.0	148355	9683	20.0	yes	no	no	no	no	
48106.85c	104.996	ENDF71x	ENDF/B-VII.1	2010	0.1	197556	15833	20.0	yes	no	no	no	no	
48106.86c	104.996	ENDF71x	ENDF/B-VII.1	2010	250.0	162771	11485	20.0	yes	no	no	no	no	
48106.70c	104.996	endf70d	ENDF/B-VII.0	2006	293.6	162351	11429	20	yes	no	no	no	no	
48106.71c	104.996	endf70d	ENDF/B-VII.0	2006	600	158318	10925	20	yes	no	no	no	no	
48106.72c	104.996	endf70d	ENDF/B-VII.0	2006	900	155607	10586	20	yes	no	no	no	no	
48106.73c	104.996	endf70d	ENDF/B-VII.0	2006	1200	153815	10362	20	yes	no	no	no	no	
48106.74c	104.996	endf70d	ENDF/B-VII.0	2006	2500	148663	9718	20	yes	no	no	no	no	
48106.66c	105	endf66b	ENDF/B-VI.4	1996	293.6	151365	12949	20	no	no	no	no	yes	
48106.65c	105	endf66e	ENDF/B-VI.4	1996	3000.1	121059	10194	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
48106.710nc	104.996	ENDF71x	ENDF/B-VII.1	2010	293.6	162067	11397	20.0	yes	no	no	no	no	
48106.711nc	104.996	ENDF71x	ENDF/B-VII.1	2010	600.0	158282	10924	20.0	yes	no	no	no	no	
48106.712nc	104.996	ENDF71x	ENDF/B-VII.1	2010	900.0	155635	10593	20.0	yes	no	no	no	no	
48106.713nc	104.996	ENDF71x	ENDF/B-VII.1	2010	1200.0	153491	10325	20.0	yes	no	no	no	no	
48106.714nc	104.996	ENDF71x	ENDF/B-VII.1	2010	2500.0	148355	9683	20.0	yes	no	no	no	no	
48106.715nc	104.996	ENDF71x	ENDF/B-VII.1	2010	0.1	197556	15833	20.0	yes	no	no	no	no	
48106.716nc	104.996	ENDF71x	ENDF/B-VII.1	2010	250.0	162771	11485	20.0	yes	no	no	no	no	
Cd-108														
48108.80c	106.977	ENDF71x	ENDF/B-VII.1	2010	293.6	109012	11011	20.0	no	no	no	no	yes	
48108.81c	106.977	ENDF71x	ENDF/B-VII.1	2010	600.0	103827	10435	20.0	no	no	no	no	yes	
48108.82c	106.977	ENDF71x	ENDF/B-VII.1	2010	900.0	100068	10017	20.0	no	no	no	no	yes	
48108.83c	106.977	ENDF71x	ENDF/B-VII.1	2010	1200.0	97521	9734	20.0	no	no	no	no	yes	
48108.84c	106.977	ENDF71x	ENDF/B-VII.1	2010	2500.0	90350	8937	20.0	no	no	no	no	yes	
48108.85c	106.977	ENDF71x	ENDF/B-VII.1	2010	0.1	153777	15985	20.0	no	no	no	no	yes	
48108.86c	106.977	ENDF71x	ENDF/B-VII.1	2010	250.0	110253	11149	20.0	no	no	no	no	yes	
48108.70c	106.977	endf70d	ENDF/B-VII.0	2006	293.6	105800	10759	20	no	no	no	no	yes	
48108.71c	106.977	endf70d	ENDF/B-VII.0	2006	600	101003	10226	20	no	no	no	no	yes	
48108.72c	106.977	endf70d	ENDF/B-VII.0	2006	900	97542	9841	20	no	no	no	no	yes	
48108.73c	106.977	endf70d	ENDF/B-VII.0	2006	1200	95398	9603	20	no	no	no	no	yes	
48108.74c	106.977	endf70d	ENDF/B-VII.0	2006	2500	88363	8821	20	no	no	no	no	yes	
48108.66c	106.977	endf66b	ENDF/B-VI.4	1996	293.6	141658	14744	20	no	no	no	no	yes	
48108.65c	106.977	endf66e	ENDF/B-VI.4	1996	3000.1	112404	11496	20	no	no	no	no	yes	
48108.710nc	106.977	ENDF71x	ENDF/B-VII.1	2010	293.6	109012	11011	20.0	no	no	no	no	yes	
48108.711nc	106.977	ENDF71x	ENDF/B-VII.1	2010	600.0	103827	10435	20.0	no	no	no	no	yes	
48108.712nc	106.977	ENDF71x	ENDF/B-VII.1	2010	900.0	100068	10017	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
48108.713nc	106.977	ENDF71x	ENDF/B-VII.1	2010	1200.0	97521	9734	20.0	no	no	no	no	yes	
48108.714nc	106.977	ENDF71x	ENDF/B-VII.1	2010	2500.0	90350	8937	20.0	no	no	no	no	yes	
48108.715nc	106.977	ENDF71x	ENDF/B-VII.1	2010	0.1	153777	15985	20.0	no	no	no	no	yes	
48108.716nc	106.977	ENDF71x	ENDF/B-VII.1	2010	250.0	110253	11149	20.0	no	no	no	no	yes	
Cd-110														
48110.80c	108.959	ENDF71x	ENDF/B-VII.1	2010	293.6	150922	15724	20.0	no	no	no	no	yes	
48110.81c	108.959	ENDF71x	ENDF/B-VII.1	2010	600.0	144598	15016	20.0	no	no	no	no	yes	
48110.82c	108.959	ENDF71x	ENDF/B-VII.1	2010	900.0	140503	14559	20.0	no	no	no	no	yes	
48110.83c	108.959	ENDF71x	ENDF/B-VII.1	2010	1200.0	136621	14125	20.0	no	no	no	no	yes	
48110.84c	108.959	ENDF71x	ENDF/B-VII.1	2010	2500.0	128592	13227	20.0	no	no	no	no	yes	
48110.85c	108.959	ENDF71x	ENDF/B-VII.1	2010	0.1	220046	23418	20.0	no	no	no	no	yes	
48110.86c	108.959	ENDF71x	ENDF/B-VII.1	2010	250.0	152827	15936	20.0	no	no	no	no	yes	
48110.70c	108.959	endf70d	ENDF/B-VII.0	2006	293.6	151540	15899	20	no	no	no	no	yes	
48110.71c	108.959	endf70d	ENDF/B-VII.0	2006	600	144693	15135	20	no	no	no	no	yes	
48110.72c	108.959	endf70d	ENDF/B-VII.0	2006	900	140205	14633	20	no	no	no	no	yes	
48110.73c	108.959	endf70d	ENDF/B-VII.0	2006	1200	135460	14103	20	no	no	no	no	yes	
48110.74c	108.959	endf70d	ENDF/B-VII.0	2006	2500	127383	13200	20	no	no	no	no	yes	
48110.66c	108.959	endf66b	ENDF/B-VI.4:X	1996	293.6	133785	13902	20	no	no	no	no	yes	
48110.65c	108.959	endf66e	ENDF/B-VI.4:X	1996	3000.1	105350	10737	20	no	no	no	no	yes	
48110.710nc	108.959	ENDF71x	ENDF/B-VII.1	2010	293.6	150922	15724	20.0	no	no	no	no	yes	
48110.711nc	108.959	ENDF71x	ENDF/B-VII.1	2010	600.0	144598	15016	20.0	no	no	no	no	yes	
48110.712nc	108.959	ENDF71x	ENDF/B-VII.1	2010	900.0	140503	14559	20.0	no	no	no	no	yes	
48110.713nc	108.959	ENDF71x	ENDF/B-VII.1	2010	1200.0	136621	14125	20.0	no	no	no	no	yes	
48110.714nc	108.959	ENDF71x	ENDF/B-VII.1	2010	2500.0	128592	13227	20.0	no	no	no	no	yes	
48110.715nc	108.959	ENDF71x	ENDF/B-VII.1	2010	0.1	220046	23418	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
48110.716nc	108.959	ENDF71x	ENDF/B-VII.1	2010	250.0	152827	15936	20.0	no	no	no	no	yes	
Cd-111														
48111.80c	109.951	ENDF71x	ENDF/B-VII.1	2010	293.6	266564	24659	20.0	yes	no	no	no	yes	
48111.81c	109.951	ENDF71x	ENDF/B-VII.1	2010	600.0	249885	22574	20.0	yes	no	no	no	yes	
48111.82c	109.951	ENDF71x	ENDF/B-VII.1	2010	900.0	241252	21495	20.0	yes	no	no	no	yes	
48111.83c	109.951	ENDF71x	ENDF/B-VII.1	2010	1200.0	234588	20662	20.0	yes	no	no	no	yes	
48111.84c	109.951	ENDF71x	ENDF/B-VII.1	2010	2500.0	216469	18397	20.0	yes	no	no	no	yes	
48111.85c	109.951	ENDF71x	ENDF/B-VII.1	2010	0.1	359358	36258	20.0	yes	no	no	no	yes	
48111.86c	109.951	ENDF71x	ENDF/B-VII.1	2010	250.0	269820	25066	20.0	yes	no	no	no	yes	
48111.70c	109.951	endf70d	ENDF/B-VII.0	2006	293.6	262831	24227	20	yes	no	no	no	yes	
48111.71c	109.951	endf70d	ENDF/B-VII.0	2006	600	247992	22372	20	yes	no	no	no	yes	
48111.72c	109.951	endf70d	ENDF/B-VII.0	2006	900	239831	21352	20	yes	no	no	no	yes	
48111.73c	109.951	endf70d	ENDF/B-VII.0	2006	1200	233471	20557	20	yes	no	no	no	yes	
48111.74c	109.951	endf70d	ENDF/B-VII.0	2006	2500	216368	18419	20	yes	no	no	no	yes	
48111.66c	109.952	endf66b	ENDF/B-VI.3	1995	293.6	153808	16016	20	no	no	no	no	no	
48111.710nc	109.951	ENDF71x	ENDF/B-VII.1	2010	293.6	266564	24659	20.0	yes	no	no	no	yes	
48111.711nc	109.951	ENDF71x	ENDF/B-VII.1	2010	600.0	249885	22574	20.0	yes	no	no	no	yes	
48111.712nc	109.951	ENDF71x	ENDF/B-VII.1	2010	900.0	241252	21495	20.0	yes	no	no	no	yes	
48111.713nc	109.951	ENDF71x	ENDF/B-VII.1	2010	1200.0	234588	20662	20.0	yes	no	no	no	yes	
48111.714nc	109.951	ENDF71x	ENDF/B-VII.1	2010	2500.0	216469	18397	20.0	yes	no	no	no	yes	
48111.715nc	109.951	ENDF71x	ENDF/B-VII.1	2010	0.1	359358	36258	20.0	yes	no	no	no	yes	
48111.716nc	109.951	ENDF71x	ENDF/B-VII.1	2010	250.0	269820	25066	20.0	yes	no	no	no	yes	
Cd-112														
48112.80c	110.942	ENDF71x	ENDF/B-VII.1	2010	293.6	184669	20636	20.0	no	no	no	no	yes	
48112.81c	110.942	ENDF71x	ENDF/B-VII.1	2010	600.0	174522	19439	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
48112.82c	110.942	ENDF71x	ENDF/B-VII.1	2010	900.0	169300	18829	20.0	no	no	no	no	yes	
48112.83c	110.942	ENDF71x	ENDF/B-VII.1	2010	1200.0	163957	18211	20.0	no	no	no	no	yes	
48112.84c	110.942	ENDF71x	ENDF/B-VII.1	2010	2500.0	152199	16830	20.0	no	no	no	no	yes	
48112.85c	110.942	ENDF71x	ENDF/B-VII.1	2010	0.1	270581	30654	20.0	no	no	no	no	yes	
48112.86c	110.942	ENDF71x	ENDF/B-VII.1	2010	250.0	186046	20800	20.0	no	no	no	no	yes	
48112.70c	110.942	endf70d	ENDF/B-VII.0	2006	293.6	182703	20483	20	no	no	no	no	yes	
48112.71c	110.942	endf70d	ENDF/B-VII.0	2006	600	173495	19391	20	no	no	no	no	yes	
48112.72c	110.942	endf70d	ENDF/B-VII.0	2006	900	168155	18787	20	no	no	no	no	yes	
48112.73c	110.942	endf70d	ENDF/B-VII.0	2006	1200	162808	18152	20	no	no	no	no	yes	
48112.74c	110.942	endf70d	ENDF/B-VII.0	2006	2500	151716	16853	20	no	no	no	no	yes	
48112.66c	110.942	endf66b	ENDF/B-VI.4	1996	293.6	130334	14515	20	no	no	no	no	yes	
48112.65c	110.942	endf66e	ENDF/B-VI.4	1996	3000.1	101915	11153	20	no	no	no	no	yes	
48112.710nc	110.942	ENDF71x	ENDF/B-VII.1	2010	293.6	184669	20636	20.0	no	no	no	no	yes	
48112.711nc	110.942	ENDF71x	ENDF/B-VII.1	2010	600.0	174522	19439	20.0	no	no	no	no	yes	
48112.712nc	110.942	ENDF71x	ENDF/B-VII.1	2010	900.0	169300	18829	20.0	no	no	no	no	yes	
48112.713nc	110.942	ENDF71x	ENDF/B-VII.1	2010	1200.0	163957	18211	20.0	no	no	no	no	yes	
48112.714nc	110.942	ENDF71x	ENDF/B-VII.1	2010	2500.0	152199	16830	20.0	no	no	no	no	yes	
48112.715nc	110.942	ENDF71x	ENDF/B-VII.1	2010	0.1	270581	30654	20.0	no	no	no	no	yes	
48112.716nc	110.942	ENDF71x	ENDF/B-VII.1	2010	250.0	186046	20800	20.0	no	no	no	no	yes	
Cd-113														
48113.80c	111.93	ENDF71x	ENDF/B-VII.1	2010	293.6	363607	33605	20.0	no	no	no	no	yes	
48113.81c	111.93	ENDF71x	ENDF/B-VII.1	2010	600.0	344253	30840	20.0	no	no	no	no	yes	
48113.82c	111.93	ENDF71x	ENDF/B-VII.1	2010	900.0	332794	29203	20.0	no	no	no	no	yes	
48113.83c	111.93	ENDF71x	ENDF/B-VII.1	2010	1200.0	324688	28045	20.0	no	no	no	no	yes	
48113.84c	111.93	ENDF71x	ENDF/B-VII.1	2010	2500.0	298983	24373	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
48113.85c	111.93	ENDF71x	ENDF/B-VII.1	2010	0.1	483559	50741	20.0	no	no	no	no	yes	
48113.86c	111.93	ENDF71x	ENDF/B-VII.1	2010	250.0	367387	34145	20.0	no	no	no	no	yes	
48113.70c	111.93	endf70d	ENDF/B-VII.0	2006	293.6	467398	48526	20	no	no	no	no	yes	
48113.71c	111.93	endf70d	ENDF/B-VII.0	2006	600	439357	44520	20	no	no	no	no	yes	
48113.72c	111.93	endf70d	ENDF/B-VII.0	2006	900	422879	42166	20	no	no	no	no	yes	
48113.73c	111.93	endf70d	ENDF/B-VII.0	2006	1200	410706	40427	20	no	no	no	no	yes	
48113.74c	111.93	endf70d	ENDF/B-VII.0	2006	2500	372891	35025	20	no	no	no	no	yes	
48113.66c	111.93	endf66b	ENDF/B-VI.3	1995	293.6	97047	9799	20	no	no	no	no	no	
48113.710nc	111.93	ENDF71x	ENDF/B-VII.1	2010	293.6	363607	33605	20.0	no	no	no	no	yes	
48113.711nc	111.93	ENDF71x	ENDF/B-VII.1	2010	600.0	344253	30840	20.0	no	no	no	no	yes	
48113.712nc	111.93	ENDF71x	ENDF/B-VII.1	2010	900.0	332794	29203	20.0	no	no	no	no	yes	
48113.713nc	111.93	ENDF71x	ENDF/B-VII.1	2010	1200.0	324688	28045	20.0	no	no	no	no	yes	
48113.714nc	111.93	ENDF71x	ENDF/B-VII.1	2010	2500.0	298983	24373	20.0	no	no	no	no	yes	
48113.715nc	111.93	ENDF71x	ENDF/B-VII.1	2010	0.1	483559	50741	20.0	no	no	no	no	yes	
48113.716nc	111.93	ENDF71x	ENDF/B-VII.1	2010	250.0	367387	34145	20.0	no	no	no	no	yes	
Cd-114														
48114.80c	112.925	ENDF71x	ENDF/B-VII.1	2010	293.6	117520	15252	20.0	no	no	no	no	yes	
48114.81c	112.925	ENDF71x	ENDF/B-VII.1	2010	600.0	113222	14638	20.0	no	no	no	no	yes	
48114.82c	112.925	ENDF71x	ENDF/B-VII.1	2010	900.0	110541	14255	20.0	no	no	no	no	yes	
48114.83c	112.925	ENDF71x	ENDF/B-VII.1	2010	1200.0	108477	13960	20.0	no	no	no	no	yes	
48114.84c	112.925	ENDF71x	ENDF/B-VII.1	2010	2500.0	102321	13081	20.0	no	no	no	no	yes	
48114.85c	112.925	ENDF71x	ENDF/B-VII.1	2010	0.1	162039	21612	20.0	no	no	no	no	yes	
48114.86c	112.925	ENDF71x	ENDF/B-VII.1	2010	250.0	118498	15392	20.0	no	no	no	no	yes	
48114.70c	112.925	endf70d	ENDF/B-VII.0	2006	293.6	116584	15205	20	no	no	no	no	yes	
48114.71c	112.925	endf70d	ENDF/B-VII.0	2006	600	112077	14561	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
48114.72c	112.925	endf70d	ENDF/B-VII.0	2006	900	109744	14228	20	no	no	no	no	yes	
48114.73c	112.925	endf70d	ENDF/B-VII.0	2006	1200	107638	13927	20	no	no	no	no	yes	
48114.74c	112.925	endf70d	ENDF/B-VII.0	2006	2500	101849	13100	20	no	no	no	no	yes	
48114.66c	112.925	endf66b	ENDF/B-VI.4	1996	293.6	102222	13154	20	no	no	no	no	yes	
48114.65c	112.925	endf66e	ENDF/B-VI.4	1996	3000.1	83882	10534	20	no	no	no	no	yes	
48114.710nc	112.925	ENDF71x	ENDF/B-VII.1	2010	293.6	117520	15252	20.0	no	no	no	no	yes	
48114.711nc	112.925	ENDF71x	ENDF/B-VII.1	2010	600.0	113222	14638	20.0	no	no	no	no	yes	
48114.712nc	112.925	ENDF71x	ENDF/B-VII.1	2010	900.0	110541	14255	20.0	no	no	no	no	yes	
48114.713nc	112.925	ENDF71x	ENDF/B-VII.1	2010	1200.0	108477	13960	20.0	no	no	no	no	yes	
48114.714nc	112.925	ENDF71x	ENDF/B-VII.1	2010	2500.0	102321	13081	20.0	no	no	no	no	yes	
48114.715nc	112.925	ENDF71x	ENDF/B-VII.1	2010	0.1	162039	21612	20.0	no	no	no	no	yes	
48114.716nc	112.925	ENDF71x	ENDF/B-VII.1	2010	250.0	118498	15392	20.0	no	no	no	no	yes	
Cd-115														
1048115.710nc	113.918	ENDF71x	ENDF/B-VII.1	2006	293.6	219634	5289	20.0	yes	no	yes	no	yes	
1048115.711nc	113.918	ENDF71x	ENDF/B-VII.1	2006	600.0	217258	4992	20.0	yes	no	yes	no	yes	
1048115.712nc	113.918	ENDF71x	ENDF/B-VII.1	2006	900.0	215979	4832	20.0	yes	no	yes	no	yes	
1048115.713nc	113.918	ENDF71x	ENDF/B-VII.1	2006	1200.0	214795	4684	20.0	yes	no	yes	no	yes	
1048115.714nc	113.918	ENDF71x	ENDF/B-VII.1	2006	2500.0	212562	4405	20.0	yes	no	yes	no	yes	
1048115.715nc	113.918	ENDF71x	ENDF/B-VII.1	2006	0.1	233603	7035	20.0	yes	no	yes	no	yes	
1048115.716nc	113.918	ENDF71x	ENDF/B-VII.1	2006	250.0	220243	5365	20.0	yes	no	yes	no	yes	
Cd-116														
48116.80c	114.909	ENDF71x	ENDF/B-VII.1	2010	293.6	78091	9695	20.0	no	no	no	no	yes	
48116.81c	114.909	ENDF71x	ENDF/B-VII.1	2010	600.0	75229	9286	20.0	no	no	no	no	yes	
48116.82c	114.909	ENDF71x	ENDF/B-VII.1	2010	900.0	73394	9024	20.0	no	no	no	no	yes	
48116.83c	114.909	ENDF71x	ENDF/B-VII.1	2010	1200.0	72274	8864	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
48116.84c	114.909	ENDF71x	ENDF/B-VII.1	2010	2500.0	68831	8372	20.0	no	no	no	no	yes	
48116.85c	114.909	ENDF71x	ENDF/B-VII.1	2010	0.1	104334	13444	20.0	no	no	no	no	yes	
48116.86c	114.909	ENDF71x	ENDF/B-VII.1	2010	250.0	78680	9779	20.0	no	no	no	no	yes	
48116.70c	114.909	endf70d	ENDF/B-VII.0	2006	293.6	77358	9677	20	no	no	no	no	yes	
48116.71c	114.909	endf70d	ENDF/B-VII.0	2006	600	74581	9280	20	no	no	no	no	yes	
48116.72c	114.909	endf70d	ENDF/B-VII.0	2006	900	73038	9060	20	no	no	no	no	yes	
48116.73c	114.909	endf70d	ENDF/B-VII.0	2006	1200	72221	8943	20	no	no	no	no	yes	
48116.74c	114.909	endf70d	ENDF/B-VII.0	2006	2500	68965	8478	20	no	no	no	no	yes	
48116.66c	114.909	endf66b	ENDF/B-VI.4	1996	293.6	66642	8141	20	no	no	no	no	yes	
48116.65c	114.909	endf66e	ENDF/B-VI.4	1996	3000.1	55903	6607	20	no	no	no	no	yes	
48116.710nc	114.909	ENDF71x	ENDF/B-VII.1	2010	293.6	78091	9695	20.0	no	no	no	no	yes	
48116.711nc	114.909	ENDF71x	ENDF/B-VII.1	2010	600.0	75229	9286	20.0	no	no	no	no	yes	
48116.712nc	114.909	ENDF71x	ENDF/B-VII.1	2010	900.0	73394	9024	20.0	no	no	no	no	yes	
48116.713nc	114.909	ENDF71x	ENDF/B-VII.1	2010	1200.0	72274	8864	20.0	no	no	no	no	yes	
48116.714nc	114.909	ENDF71x	ENDF/B-VII.1	2010	2500.0	68831	8372	20.0	no	no	no	no	yes	
48116.715nc	114.909	ENDF71x	ENDF/B-VII.1	2010	0.1	104334	13444	20.0	no	no	no	no	yes	
48116.716nc	114.909	ENDF71x	ENDF/B-VII.1	2010	250.0	78680	9779	20.0	no	no	no	no	yes	
Cd-515														
48515.80c	113.918	ENDF71x	ENDF/B-VII.1	2006	293.6	219634	5289	20.0	yes	no	yes	no	yes	
48515.81c	113.918	ENDF71x	ENDF/B-VII.1	2006	600.0	217258	4992	20.0	yes	no	yes	no	yes	
48515.82c	113.918	ENDF71x	ENDF/B-VII.1	2006	900.0	215979	4832	20.0	yes	no	yes	no	yes	
48515.83c	113.918	ENDF71x	ENDF/B-VII.1	2006	1200.0	214795	4684	20.0	yes	no	yes	no	yes	
48515.84c	113.918	ENDF71x	ENDF/B-VII.1	2006	2500.0	212562	4405	20.0	yes	no	yes	no	yes	
48515.85c	113.918	ENDF71x	ENDF/B-VII.1	2006	0.1	233603	7035	20.0	yes	no	yes	no	yes	
48515.86c	113.918	ENDF71x	ENDF/B-VII.1	2006	250.0	220243	5365	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
48515.70c	113.918	endf70d	ENDF/B-VII.0	2006	293.6	220366	5409	20	yes	no	yes	no	yes	
48515.71c	113.918	endf70d	ENDF/B-VII.0	2006	600	217990	5112	20	yes	no	yes	no	yes	
48515.72c	113.918	endf70d	ENDF/B-VII.0	2006	900	216711	4952	20	yes	no	yes	no	yes	
48515.73c	113.918	endf70d	ENDF/B-VII.0	2006	1200	215527	4804	20	yes	no	yes	no	yes	
48515.74c	113.918	endf70d	ENDF/B-VII.0	2006	2500	213294	4525	20	yes	no	yes	no	yes	
				Z = 49, indium										
In-0														
49000.66c	113.834	endf66b	ENDF/B-VI.0	1990	293.6	269821	30337	20	yes	no	no	no	no	
49000.60c	113.834	endf60	ENDF/B-VI.0	1990	293.6	93662	10116	20	yes	no	no	no	no	
49000.42c	113.8336	endl92	LLNL	<1992	300	65498	7870	30	yes	no	no	no	no	
In-113														
49113.80c	111.934	ENDF71x	ENDF/B-VII.1	2006	293.6	179060	13051	20.0	no	no	no	no	yes	
49113.81c	111.934	ENDF71x	ENDF/B-VII.1	2006	600.0	172809	12158	20.0	no	no	no	no	yes	
49113.82c	111.934	ENDF71x	ENDF/B-VII.1	2006	900.0	168931	11604	20.0	no	no	no	no	yes	
49113.83c	111.934	ENDF71x	ENDF/B-VII.1	2006	1200.0	166425	11246	20.0	no	no	no	no	yes	
49113.84c	111.934	ENDF71x	ENDF/B-VII.1	2006	2500.0	160712	10430	20.0	no	no	no	no	yes	
49113.85c	111.934	ENDF71x	ENDF/B-VII.1	2006	0.1	211078	17625	20.0	no	no	no	no	yes	
49113.86c	111.934	ENDF71x	ENDF/B-VII.1	2006	250.0	180895	13313	20.0	no	no	no	no	yes	
49113.70c	111.934	endf70e	ENDF/B-VII.0	2006	293.6	178861	13103	20	no	no	no	no	yes	
49113.71c	111.934	endf70e	ENDF/B-VII.0	2006	600	172610	12210	20	no	no	no	no	yes	
49113.72c	111.934	endf70e	ENDF/B-VII.0	2006	900	168732	11656	20	no	no	no	no	yes	
49113.73c	111.934	endf70e	ENDF/B-VII.0	2006	1200	166226	11298	20	no	no	no	no	yes	
49113.74c	111.934	endf70e	ENDF/B-VII.0	2006	2500	160513	10482	20	no	no	no	no	yes	
49113.710nc	111.934	ENDF71x	ENDF/B-VII.1	2006	293.6	179060	13051	20.0	no	no	no	no	yes	
49113.711nc	111.934	ENDF71x	ENDF/B-VII.1	2006	600.0	172809	12158	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
49113.712nc	111.934	ENDF71x	ENDF/B-VII.1	2006	900.0	168931	11604	20.0	no	no	no	no	yes	
49113.713nc	111.934	ENDF71x	ENDF/B-VII.1	2006	1200.0	166425	11246	20.0	no	no	no	no	yes	
49113.714nc	111.934	ENDF71x	ENDF/B-VII.1	2006	2500.0	160712	10430	20.0	no	no	no	no	yes	
49113.715nc	111.934	ENDF71x	ENDF/B-VII.1	2006	0.1	211078	17625	20.0	no	no	no	no	yes	
49113.716nc	111.934	ENDF71x	ENDF/B-VII.1	2006	250.0	180895	13313	20.0	no	no	no	no	yes	
In-115														
49115.80c	113.917	ENDF71x	ENDF/B-VII.1	2006	293.6	288087	33061	20.0	no	no	no	no	yes	
49115.81c	113.917	ENDF71x	ENDF/B-VII.1	2006	600.0	263840	29597	20.0	no	no	no	no	yes	
49115.82c	113.917	ENDF71x	ENDF/B-VII.1	2006	900.0	249729	27581	20.0	no	no	no	no	yes	
49115.83c	113.917	ENDF71x	ENDF/B-VII.1	2006	1200.0	238871	26030	20.0	no	no	no	no	yes	
49115.84c	113.917	ENDF71x	ENDF/B-VII.1	2006	2500.0	210191	21933	20.0	no	no	no	no	yes	
49115.85c	113.917	ENDF71x	ENDF/B-VII.1	2006	0.1	404931	49753	20.0	no	no	no	no	yes	
49115.86c	113.917	ENDF71x	ENDF/B-VII.1	2006	250.0	293480	33831	20.0	no	no	no	no	yes	
49115.70c	113.917	endf70e	ENDF/B-VII.0	2006	293.6	288239	33105	20	no	no	no	no	yes	
49115.71c	113.917	endf70e	ENDF/B-VII.0	2006	600	263992	29641	20	no	no	no	no	yes	
49115.72c	113.917	endf70e	ENDF/B-VII.0	2006	900	249881	27625	20	no	no	no	no	yes	
49115.73c	113.917	endf70e	ENDF/B-VII.0	2006	1200	239023	26074	20	no	no	no	no	yes	
49115.74c	113.917	endf70e	ENDF/B-VII.0	2006	2500	210343	21977	20	no	no	no	no	yes	
49115.710nc	113.917	ENDF71x	ENDF/B-VII.1	2006	293.6	288087	33061	20.0	no	no	no	no	yes	
49115.711nc	113.917	ENDF71x	ENDF/B-VII.1	2006	600.0	263840	29597	20.0	no	no	no	no	yes	
49115.712nc	113.917	ENDF71x	ENDF/B-VII.1	2006	900.0	249729	27581	20.0	no	no	no	no	yes	
49115.713nc	113.917	ENDF71x	ENDF/B-VII.1	2006	1200.0	238871	26030	20.0	no	no	no	no	yes	
49115.714nc	113.917	ENDF71x	ENDF/B-VII.1	2006	2500.0	210191	21933	20.0	no	no	no	no	yes	
49115.715nc	113.917	ENDF71x	ENDF/B-VII.1	2006	0.1	404931	49753	20.0	no	no	no	no	yes	
49115.716nc	113.917	ENDF71x	ENDF/B-VII.1	2006	250.0	293480	33831	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
In-120														
49120.42c	116.4906	endl92fp	LLNL	<1992	300	12755	164	30	yes	no	no	no	no	12
In-125														
49125.42c	116.4906	endl92fp	LLNL	<1992	300	9142	119	30	yes	no	no	no	no	12
				Z = 50, tin										
Sn-0														
50000.42c	117.6704	endl92	LLNL:X	<1992	300	248212	34612	30	yes	no	no	no	no	
50000.40c	117.6704	endl92	LLNL	<1992	300	248212	34612	30	yes	no	no	no	no	
Sn-112														
50112.80c	110.944	ENDF71x	ENDF/B-VII.1	2006	293.6	123146	6459	20.0	no	no	no	no	yes	
50112.81c	110.944	ENDF71x	ENDF/B-VII.1	2006	600.0	122215	6326	20.0	no	no	no	no	yes	
50112.82c	110.944	ENDF71x	ENDF/B-VII.1	2006	900.0	121095	6166	20.0	no	no	no	no	yes	
50112.83c	110.944	ENDF71x	ENDF/B-VII.1	2006	1200.0	120466	6076	20.0	no	no	no	no	yes	
50112.84c	110.944	ENDF71x	ENDF/B-VII.1	2006	2500.0	119115	5883	20.0	no	no	no	no	yes	
50112.85c	110.944	ENDF71x	ENDF/B-VII.1	2006	0.1	130517	7512	20.0	no	no	no	no	yes	
50112.86c	110.944	ENDF71x	ENDF/B-VII.1	2006	250.0	123769	6548	20.0	no	no	no	no	yes	
50112.70c	110.944	endf70e	ENDF/B-VII.0	2006	293.6	123333	6515	20	no	no	no	no	yes	
50112.71c	110.944	endf70e	ENDF/B-VII.0	2006	600	122402	6382	20	no	no	no	no	yes	
50112.72c	110.944	endf70e	ENDF/B-VII.0	2006	900	121282	6222	20	no	no	no	no	yes	
50112.73c	110.944	endf70e	ENDF/B-VII.0	2006	1200	120653	6132	20	no	no	no	no	yes	
50112.74c	110.944	endf70e	ENDF/B-VII.0	2006	2500	119302	5939	20	no	no	no	no	yes	
50112.710nc	110.944	ENDF71x	ENDF/B-VII.1	2006	293.6	123146	6459	20.0	no	no	no	no	yes	
50112.711nc	110.944	ENDF71x	ENDF/B-VII.1	2006	600.0	122215	6326	20.0	no	no	no	no	yes	
50112.712nc	110.944	ENDF71x	ENDF/B-VII.1	2006	900.0	121095	6166	20.0	no	no	no	no	yes	
50112.713nc	110.944	ENDF71x	ENDF/B-VII.1	2006	1200.0	120466	6076	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
50112.714nc	110.944	ENDF71x	ENDF/B-VII.1	2006	2500.0	119115	5883	20.0	no	no	no	no	yes	
50112.715nc	110.944	ENDF71x	ENDF/B-VII.1	2006	0.1	130517	7512	20.0	no	no	no	no	yes	
50112.716nc	110.944	ENDF71x	ENDF/B-VII.1	2006	250.0	123769	6548	20.0	no	no	no	no	yes	
Sn-113														
50113.80c	111.935	ENDF71x	ENDF/B-VII.1	2006	293.6	551305	8006	20.0	yes	no	yes	no	yes	
50113.81c	111.935	ENDF71x	ENDF/B-VII.1	2006	600.0	551072	7977	20.0	yes	no	yes	no	yes	
50113.82c	111.935	ENDF71x	ENDF/B-VII.1	2006	900.0	550640	7923	20.0	yes	no	yes	no	yes	
50113.83c	111.935	ENDF71x	ENDF/B-VII.1	2006	1200.0	550608	7919	20.0	yes	no	yes	no	yes	
50113.84c	111.935	ENDF71x	ENDF/B-VII.1	2006	2500.0	550144	7861	20.0	yes	no	yes	no	yes	
50113.85c	111.935	ENDF71x	ENDF/B-VII.1	2006	0.1	552201	8118	20.0	yes	no	yes	no	yes	
50113.86c	111.935	ENDF71x	ENDF/B-VII.1	2006	250.0	551401	8018	20.0	yes	no	yes	no	yes	
50113.70c	111.935	endf70e	ENDF/B-VII.0	2006	293.6	555628	8131	20	yes	no	yes	no	yes	
50113.71c	111.935	endf70e	ENDF/B-VII.0	2006	600	555395	8102	20	yes	no	yes	no	yes	
50113.72c	111.935	endf70e	ENDF/B-VII.0	2006	900	554963	8048	20	yes	no	yes	no	yes	
50113.73c	111.935	endf70e	ENDF/B-VII.0	2006	1200	554931	8044	20	yes	no	yes	no	yes	
50113.74c	111.935	endf70e	ENDF/B-VII.0	2006	2500	554467	7986	20	yes	no	yes	no	yes	
50113.710nc	111.935	ENDF71x	ENDF/B-VII.1	2006	293.6	551305	8006	20.0	yes	no	yes	no	yes	
50113.711nc	111.935	ENDF71x	ENDF/B-VII.1	2006	600.0	551072	7977	20.0	yes	no	yes	no	yes	
50113.712nc	111.935	ENDF71x	ENDF/B-VII.1	2006	900.0	550640	7923	20.0	yes	no	yes	no	yes	
50113.713nc	111.935	ENDF71x	ENDF/B-VII.1	2006	1200.0	550608	7919	20.0	yes	no	yes	no	yes	
50113.714nc	111.935	ENDF71x	ENDF/B-VII.1	2006	2500.0	550144	7861	20.0	yes	no	yes	no	yes	
50113.715nc	111.935	ENDF71x	ENDF/B-VII.1	2006	0.1	552201	8118	20.0	yes	no	yes	no	yes	
50113.716nc	111.935	ENDF71x	ENDF/B-VII.1	2006	250.0	551401	8018	20.0	yes	no	yes	no	yes	
Sn-114														
50114.80c	112.925	ENDF71x	ENDF/B-VII.1	2006	293.6	127157	6176	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
50114.81c	112.925	ENDF71x	ENDF/B-VII.1	2006	600.0	125945	6003	20.0	no	no	no	no	yes	
50114.82c	112.925	ENDF71x	ENDF/B-VII.1	2006	900.0	125191	5895	20.0	no	no	no	no	yes	
50114.83c	112.925	ENDF71x	ENDF/B-VII.1	2006	1200.0	124826	5843	20.0	no	no	no	no	yes	
50114.84c	112.925	ENDF71x	ENDF/B-VII.1	2006	2500.0	123307	5626	20.0	no	no	no	no	yes	
50114.85c	112.925	ENDF71x	ENDF/B-VII.1	2006	0.1	134592	7238	20.0	no	no	no	no	yes	
50114.86c	112.925	ENDF71x	ENDF/B-VII.1	2006	250.0	127367	6206	20.0	no	no	no	no	yes	
50114.70c	112.925	endf70e	ENDF/B-VII.0	2006	293.6	127403	6230	20	no	no	no	no	yes	
50114.71c	112.925	endf70e	ENDF/B-VII.0	2006	600	126191	6057	20	no	no	no	no	yes	
50114.72c	112.925	endf70e	ENDF/B-VII.0	2006	900	125437	5949	20	no	no	no	no	yes	
50114.73c	112.925	endf70e	ENDF/B-VII.0	2006	1200	125072	5897	20	no	no	no	no	yes	
50114.74c	112.925	endf70e	ENDF/B-VII.0	2006	2500	123553	5680	20	no	no	no	no	yes	
50114.710nc	112.925	ENDF71x	ENDF/B-VII.1	2006	293.6	127157	6176	20.0	no	no	no	no	yes	
50114.711nc	112.925	ENDF71x	ENDF/B-VII.1	2006	600.0	125945	6003	20.0	no	no	no	no	yes	
50114.712nc	112.925	ENDF71x	ENDF/B-VII.1	2006	900.0	125191	5895	20.0	no	no	no	no	yes	
50114.713nc	112.925	ENDF71x	ENDF/B-VII.1	2006	1200.0	124826	5843	20.0	no	no	no	no	yes	
50114.714nc	112.925	ENDF71x	ENDF/B-VII.1	2006	2500.0	123307	5626	20.0	no	no	no	no	yes	
50114.715nc	112.925	ENDF71x	ENDF/B-VII.1	2006	0.1	134592	7238	20.0	no	no	no	no	yes	
50114.716nc	112.925	ENDF71x	ENDF/B-VII.1	2006	250.0	127367	6206	20.0	no	no	no	no	yes	
Sn-115														
50115.80c	113.916	ENDF71x	ENDF/B-VII.1	2006	293.6	91663	4070	20.0	no	no	no	no	yes	
50115.81c	113.916	ENDF71x	ENDF/B-VII.1	2006	600.0	90912	3963	20.0	no	no	no	no	yes	
50115.82c	113.916	ENDF71x	ENDF/B-VII.1	2006	900.0	90906	3962	20.0	no	no	no	no	yes	
50115.83c	113.916	ENDF71x	ENDF/B-VII.1	2006	1200.0	90766	3942	20.0	no	no	no	no	yes	
50115.84c	113.916	ENDF71x	ENDF/B-VII.1	2006	2500.0	90198	3861	20.0	no	no	no	no	yes	
50115.85c	113.916	ENDF71x	ENDF/B-VII.1	2006	0.1	93530	4337	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
50115.86c	113.916	ENDF71x	ENDF/B-VII.1	2006	250.0	91745	4082	20.0	no	no	no	no	yes	
50115.70c	113.916	endf70e	ENDF/B-VII.0	2006	293.6	91804	4127	20	no	no	no	no	yes	
50115.71c	113.916	endf70e	ENDF/B-VII.0	2006	600	91053	4020	20	no	no	no	no	yes	
50115.72c	113.916	endf70e	ENDF/B-VII.0	2006	900	91047	4019	20	no	no	no	no	yes	
50115.73c	113.916	endf70e	ENDF/B-VII.0	2006	1200	90907	3999	20	no	no	no	no	yes	
50115.74c	113.916	endf70e	ENDF/B-VII.0	2006	2500	90339	3918	20	no	no	no	no	yes	
50115.710nc	113.916	ENDF71x	ENDF/B-VII.1	2006	293.6	91663	4070	20.0	no	no	no	no	yes	
50115.711nc	113.916	ENDF71x	ENDF/B-VII.1	2006	600.0	90912	3963	20.0	no	no	no	no	yes	
50115.712nc	113.916	ENDF71x	ENDF/B-VII.1	2006	900.0	90906	3962	20.0	no	no	no	no	yes	
50115.713nc	113.916	ENDF71x	ENDF/B-VII.1	2006	1200.0	90766	3942	20.0	no	no	no	no	yes	
50115.714nc	113.916	ENDF71x	ENDF/B-VII.1	2006	2500.0	90198	3861	20.0	no	no	no	no	yes	
50115.715nc	113.916	ENDF71x	ENDF/B-VII.1	2006	0.1	93530	4337	20.0	no	no	no	no	yes	
50115.716nc	113.916	ENDF71x	ENDF/B-VII.1	2006	250.0	91745	4082	20.0	no	no	no	no	yes	
Sn-116														
50116.80c	114.906	ENDF71x	ENDF/B-VII.1	2006	293.6	262487	31289	20.0	no	no	no	no	yes	
50116.81c	114.906	ENDF71x	ENDF/B-VII.1	2006	600.0	250642	29597	20.0	no	no	no	no	yes	
50116.82c	114.906	ENDF71x	ENDF/B-VII.1	2006	900.0	242487	28432	20.0	no	no	no	no	yes	
50116.83c	114.906	ENDF71x	ENDF/B-VII.1	2006	1200.0	237197	27676	20.0	no	no	no	no	yes	
50116.84c	114.906	ENDF71x	ENDF/B-VII.1	2006	2500.0	221559	25442	20.0	no	no	no	no	yes	
50116.85c	114.906	ENDF71x	ENDF/B-VII.1	2006	0.1	356573	44730	20.0	no	no	no	no	yes	
50116.86c	114.906	ENDF71x	ENDF/B-VII.1	2006	250.0	265435	31710	20.0	no	no	no	no	yes	
50116.70c	114.906	endf70e	ENDF/B-VII.0	2006	293.6	262901	31332	20	no	no	no	no	yes	
50116.71c	114.906	endf70e	ENDF/B-VII.0	2006	600	251056	29640	20	no	no	no	no	yes	
50116.72c	114.906	endf70e	ENDF/B-VII.0	2006	900	242901	28475	20	no	no	no	no	yes	
50116.73c	114.906	endf70e	ENDF/B-VII.0	2006	1200	237611	27719	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
50116.74c	114.906	endf70e	ENDF/B-VII.0	2006	2500	221973	25485	20	no	no	no	no	yes	
50116.710nc	114.906	ENDF71x	ENDF/B-VII.1	2006	293.6	262487	31289	20.0	no	no	no	no	yes	
50116.711nc	114.906	ENDF71x	ENDF/B-VII.1	2006	600.0	250642	29597	20.0	no	no	no	no	yes	
50116.712nc	114.906	ENDF71x	ENDF/B-VII.1	2006	900.0	242487	28432	20.0	no	no	no	no	yes	
50116.713nc	114.906	ENDF71x	ENDF/B-VII.1	2006	1200.0	237197	27676	20.0	no	no	no	no	yes	
50116.714nc	114.906	ENDF71x	ENDF/B-VII.1	2006	2500.0	221559	25442	20.0	no	no	no	no	yes	
50116.715nc	114.906	ENDF71x	ENDF/B-VII.1	2006	0.1	356573	44730	20.0	no	no	no	no	yes	
50116.716nc	114.906	ENDF71x	ENDF/B-VII.1	2006	250.0	265435	31710	20.0	no	no	no	no	yes	
Sn-117														
50117.80c	115.899	ENDF71x	ENDF/B-VII.1	2006	293.6	145926	13012	20.0	no	no	no	no	yes	
50117.81c	115.899	ENDF71x	ENDF/B-VII.1	2006	600.0	141104	12323	20.0	no	no	no	no	yes	
50117.82c	115.899	ENDF71x	ENDF/B-VII.1	2006	900.0	138499	11951	20.0	no	no	no	no	yes	
50117.83c	115.899	ENDF71x	ENDF/B-VII.1	2006	1200.0	136392	11650	20.0	no	no	no	no	yes	
50117.84c	115.899	ENDF71x	ENDF/B-VII.1	2006	2500.0	131857	11002	20.0	no	no	no	no	yes	
50117.85c	115.899	ENDF71x	ENDF/B-VII.1	2006	0.1	177077	17462	20.0	no	no	no	no	yes	
50117.86c	115.899	ENDF71x	ENDF/B-VII.1	2006	250.0	146976	13162	20.0	no	no	no	no	yes	
50117.70c	115.899	endf70e	ENDF/B-VII.0	2006	293.6	146053	13050	20	no	no	no	no	yes	
50117.71c	115.899	endf70e	ENDF/B-VII.0	2006	600	141231	12361	20	no	no	no	no	yes	
50117.72c	115.899	endf70e	ENDF/B-VII.0	2006	900	138626	11989	20	no	no	no	no	yes	
50117.73c	115.899	endf70e	ENDF/B-VII.0	2006	1200	136519	11688	20	no	no	no	no	yes	
50117.74c	115.899	endf70e	ENDF/B-VII.0	2006	2500	131984	11040	20	no	no	no	no	yes	
50117.710nc	115.899	ENDF71x	ENDF/B-VII.1	2006	293.6	145926	13012	20.0	no	no	no	no	yes	
50117.711nc	115.899	ENDF71x	ENDF/B-VII.1	2006	600.0	141104	12323	20.0	no	no	no	no	yes	
50117.712nc	115.899	ENDF71x	ENDF/B-VII.1	2006	900.0	138499	11951	20.0	no	no	no	no	yes	
50117.713nc	115.899	ENDF71x	ENDF/B-VII.1	2006	1200.0	136392	11650	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
50117.714nc	115.899	ENDF71x	ENDF/B-VII.1	2006	2500.0	131857	11002	20.0	no	no	no	no	yes	
50117.715nc	115.899	ENDF71x	ENDF/B-VII.1	2006	0.1	177077	17462	20.0	no	no	no	no	yes	
50117.716nc	115.899	ENDF71x	ENDF/B-VII.1	2006	250.0	146976	13162	20.0	no	no	no	no	yes	
Sn-118														
50118.80c	116.889	ENDF71x	ENDF/B-VII.1	2006	293.6	71042	4697	20.0	no	no	no	no	yes	
50118.81c	116.889	ENDF71x	ENDF/B-VII.1	2006	600.0	70378	4602	20.0	no	no	no	no	yes	
50118.82c	116.889	ENDF71x	ENDF/B-VII.1	2006	900.0	69957	4542	20.0	no	no	no	no	yes	
50118.83c	116.889	ENDF71x	ENDF/B-VII.1	2006	1200.0	69762	4514	20.0	no	no	no	no	yes	
50118.84c	116.889	ENDF71x	ENDF/B-VII.1	2006	2500.0	69134	4424	20.0	no	no	no	no	yes	
50118.85c	116.889	ENDF71x	ENDF/B-VII.1	2006	0.1	76343	5454	20.0	no	no	no	no	yes	
50118.86c	116.889	ENDF71x	ENDF/B-VII.1	2006	250.0	71098	4705	20.0	no	no	no	no	yes	
50118.70c	116.889	endf70e	ENDF/B-VII.0	2006	293.6	71046	4751	20	no	no	no	no	yes	
50118.71c	116.889	endf70e	ENDF/B-VII.0	2006	600	70382	4656	20	no	no	no	no	yes	
50118.72c	116.889	endf70e	ENDF/B-VII.0	2006	900	69961	4596	20	no	no	no	no	yes	
50118.73c	116.889	endf70e	ENDF/B-VII.0	2006	1200	69766	4568	20	no	no	no	no	yes	
50118.74c	116.889	endf70e	ENDF/B-VII.0	2006	2500	69138	4478	20	no	no	no	no	yes	
50118.710nc	116.889	ENDF71x	ENDF/B-VII.1	2006	293.6	71042	4697	20.0	no	no	no	no	yes	
50118.711nc	116.889	ENDF71x	ENDF/B-VII.1	2006	600.0	70378	4602	20.0	no	no	no	no	yes	
50118.712nc	116.889	ENDF71x	ENDF/B-VII.1	2006	900.0	69957	4542	20.0	no	no	no	no	yes	
50118.713nc	116.889	ENDF71x	ENDF/B-VII.1	2006	1200.0	69762	4514	20.0	no	no	no	no	yes	
50118.714nc	116.889	ENDF71x	ENDF/B-VII.1	2006	2500.0	69134	4424	20.0	no	no	no	no	yes	
50118.715nc	116.889	ENDF71x	ENDF/B-VII.1	2006	0.1	76343	5454	20.0	no	no	no	no	yes	
50118.716nc	116.889	ENDF71x	ENDF/B-VII.1	2006	250.0	71098	4705	20.0	no	no	no	no	yes	
Sn-119														
50119.80c	117.882	ENDF71x	ENDF/B-VII.1	2006	293.6	122683	7290	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
50119.81c	117.882	ENDF71x	ENDF/B-VII.1	2006	600.0	120842	7027	20.0	no	no	no	no	yes	
50119.82c	117.882	ENDF71x	ENDF/B-VII.1	2006	900.0	119974	6903	20.0	no	no	no	no	yes	
50119.83c	117.882	ENDF71x	ENDF/B-VII.1	2006	1200.0	119366	6816	20.0	no	no	no	no	yes	
50119.84c	117.882	ENDF71x	ENDF/B-VII.1	2006	2500.0	117309	6522	20.0	no	no	no	no	yes	
50119.85c	117.882	ENDF71x	ENDF/B-VII.1	2006	0.1	134927	9039	20.0	no	no	no	no	yes	
50119.86c	117.882	ENDF71x	ENDF/B-VII.1	2006	250.0	123104	7350	20.0	no	no	no	no	yes	
50119.70c	117.882	endf70e	ENDF/B-VII.0	2006	293.6	122631	7315	20	no	no	no	no	yes	
50119.71c	117.882	endf70e	ENDF/B-VII.0	2006	600	120790	7052	20	no	no	no	no	yes	
50119.72c	117.882	endf70e	ENDF/B-VII.0	2006	900	119922	6928	20	no	no	no	no	yes	
50119.73c	117.882	endf70e	ENDF/B-VII.0	2006	1200	119314	6841	20	no	no	no	no	yes	
50119.74c	117.882	endf70e	ENDF/B-VII.0	2006	2500	117257	6547	20	no	no	no	no	yes	
50119.710nc	117.882	ENDF71x	ENDF/B-VII.1	2006	293.6	122683	7290	20.0	no	no	no	no	yes	
50119.711nc	117.882	ENDF71x	ENDF/B-VII.1	2006	600.0	120842	7027	20.0	no	no	no	no	yes	
50119.712nc	117.882	ENDF71x	ENDF/B-VII.1	2006	900.0	119974	6903	20.0	no	no	no	no	yes	
50119.713nc	117.882	ENDF71x	ENDF/B-VII.1	2006	1200.0	119366	6816	20.0	no	no	no	no	yes	
50119.714nc	117.882	ENDF71x	ENDF/B-VII.1	2006	2500.0	117309	6522	20.0	no	no	no	no	yes	
50119.715nc	117.882	ENDF71x	ENDF/B-VII.1	2006	0.1	134927	9039	20.0	no	no	no	no	yes	
50119.716nc	117.882	ENDF71x	ENDF/B-VII.1	2006	250.0	123104	7350	20.0	no	no	no	no	yes	
Sn-120														
50120.80c	118.872	ENDF71x	ENDF/B-VII.1	2006	293.6	233475	26167	20.0	no	no	no	no	yes	
50120.81c	118.872	ENDF71x	ENDF/B-VII.1	2006	600.0	223120	24688	20.0	no	no	no	no	yes	
50120.82c	118.872	ENDF71x	ENDF/B-VII.1	2006	900.0	217837	23933	20.0	no	no	no	no	yes	
50120.83c	118.872	ENDF71x	ENDF/B-VII.1	2006	1200.0	213985	23383	20.0	no	no	no	no	yes	
50120.84c	118.872	ENDF71x	ENDF/B-VII.1	2006	2500.0	202919	21802	20.0	no	no	no	no	yes	
50120.85c	118.872	ENDF71x	ENDF/B-VII.1	2006	0.1	301632	35904	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
50120.86c	118.872	ENDF71x	ENDF/B-VII.1	2006	250.0	235442	26448	20.0	no	no	no	no	yes	
50120.70c	118.872	endf70e	ENDF/B-VII.0	2006	293.6	233817	26210	20	no	no	no	no	yes	
50120.71c	118.872	endf70e	ENDF/B-VII.0	2006	600	223462	24731	20	no	no	no	no	yes	
50120.72c	118.872	endf70e	ENDF/B-VII.0	2006	900	218179	23976	20	no	no	no	no	yes	
50120.73c	118.872	endf70e	ENDF/B-VII.0	2006	1200	214327	23426	20	no	no	no	no	yes	
50120.74c	118.872	endf70e	ENDF/B-VII.0	2006	2500	203261	21845	20	no	no	no	no	yes	
50120.35c	116.4906	rmccs	LLNL	<1985	0	8366	232	20	yes	no	no	no	no	17
50120.42c	116.490608	endl92	LLNL	<1992	300.1	12755	164	30	yes	no	no	no	no	17
50120.710nc	118.872	ENDF71x	ENDF/B-VII.1	2006	293.6	233475	26167	20.0	no	no	no	no	yes	
50120.711nc	118.872	ENDF71x	ENDF/B-VII.1	2006	600.0	223120	24688	20.0	no	no	no	no	yes	
50120.712nc	118.872	ENDF71x	ENDF/B-VII.1	2006	900.0	217837	23933	20.0	no	no	no	no	yes	
50120.713nc	118.872	ENDF71x	ENDF/B-VII.1	2006	1200.0	213985	23383	20.0	no	no	no	no	yes	
50120.714nc	118.872	ENDF71x	ENDF/B-VII.1	2006	2500.0	202919	21802	20.0	no	no	no	no	yes	
50120.715nc	118.872	ENDF71x	ENDF/B-VII.1	2006	0.1	301632	35904	20.0	no	no	no	no	yes	
50120.716nc	118.872	ENDF71x	ENDF/B-VII.1	2006	250.0	235442	26448	20.0	no	no	no	no	yes	
Sn-122														
50122.80c	120.856	ENDF71x	ENDF/B-VII.1	2006	293.6	360443	46287	20.0	no	no	no	no	no	
50122.81c	120.856	ENDF71x	ENDF/B-VII.1	2006	600.0	344401	43995	20.0	no	no	no	no	no	
50122.82c	120.856	ENDF71x	ENDF/B-VII.1	2006	900.0	335894	42780	20.0	no	no	no	no	no	
50122.83c	120.856	ENDF71x	ENDF/B-VII.1	2006	1200.0	329504	41867	20.0	no	no	no	no	no	
50122.84c	120.856	ENDF71x	ENDF/B-VII.1	2006	2500.0	311130	39242	20.0	no	no	no	no	no	
50122.85c	120.856	ENDF71x	ENDF/B-VII.1	2006	0.1	449630	59028	20.0	no	no	no	no	no	
50122.86c	120.856	ENDF71x	ENDF/B-VII.1	2006	250.0	363965	46790	20.0	no	no	no	no	no	
50122.70c	120.856	endf70e	ENDF/B-VII.0	2006	293.6	360443	46287	20	no	no	no	no	no	
50122.71c	120.856	endf70e	ENDF/B-VII.0	2006	600	344401	43995	20	no	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
50122.72c	120.856	endf70e	ENDF/B-VII.0	2006	900	335894	42780	20	no	no	no	no	no	
50122.73c	120.856	endf70e	ENDF/B-VII.0	2006	1200	329504	41867	20	no	no	no	no	no	
50122.74c	120.856	endf70e	ENDF/B-VII.0	2006	2500	311130	39242	20	no	no	no	no	no	
50122.710nc	120.856	ENDF71x	ENDF/B-VII.1	2006	293.6	360443	46287	20.0	no	no	no	no	no	
50122.711nc	120.856	ENDF71x	ENDF/B-VII.1	2006	600.0	344401	43995	20.0	no	no	no	no	no	
50122.712nc	120.856	ENDF71x	ENDF/B-VII.1	2006	900.0	335894	42780	20.0	no	no	no	no	no	
50122.713nc	120.856	ENDF71x	ENDF/B-VII.1	2006	1200.0	329504	41867	20.0	no	no	no	no	no	
50122.714nc	120.856	ENDF71x	ENDF/B-VII.1	2006	2500.0	311130	39242	20.0	no	no	no	no	no	
50122.715nc	120.856	ENDF71x	ENDF/B-VII.1	2006	0.1	449630	59028	20.0	no	no	no	no	no	
50122.716nc	120.856	ENDF71x	ENDF/B-VII.1	2006	250.0	363965	46790	20.0	no	no	no	no	no	
Sn-123														
50123.80c	121.85	ENDF71x	ENDF/B-VII.1	2006	293.6	62386	2286	20.0	no	no	no	no	yes	
50123.81c	121.85	ENDF71x	ENDF/B-VII.1	2006	600.0	62463	2297	20.0	no	no	no	no	yes	
50123.82c	121.85	ENDF71x	ENDF/B-VII.1	2006	900.0	62477	2299	20.0	no	no	no	no	yes	
50123.83c	121.85	ENDF71x	ENDF/B-VII.1	2006	1200.0	62449	2295	20.0	no	no	no	no	yes	
50123.84c	121.85	ENDF71x	ENDF/B-VII.1	2006	2500.0	62501	2302	20.0	no	no	no	no	yes	
50123.85c	121.85	ENDF71x	ENDF/B-VII.1	2006	0.1	62185	2257	20.0	no	no	no	no	yes	
50123.86c	121.85	ENDF71x	ENDF/B-VII.1	2006	250.0	62421	2291	20.0	no	no	no	no	yes	
50123.70c	121.85	endf70e	ENDF/B-VII.0	2006	293.6	57753	2304	20	no	no	no	no	no	
50123.71c	121.85	endf70e	ENDF/B-VII.0	2006	600	57830	2315	20	no	no	no	no	no	
50123.72c	121.85	endf70e	ENDF/B-VII.0	2006	900	57844	2317	20	no	no	no	no	no	
50123.73c	121.85	endf70e	ENDF/B-VII.0	2006	1200	57816	2313	20	no	no	no	no	no	
50123.74c	121.85	endf70e	ENDF/B-VII.0	2006	2500	57868	2320	20	no	no	no	no	no	
50123.710nc	121.85	ENDF71x	ENDF/B-VII.1	2006	293.6	62386	2286	20.0	no	no	no	no	yes	
50123.711nc	121.85	ENDF71x	ENDF/B-VII.1	2006	600.0	62463	2297	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
50123.712nc	121.85	ENDF71x	ENDF/B-VII.1	2006	900.0	62477	2299	20.0	no	no	no	no	yes	
50123.713nc	121.85	ENDF71x	ENDF/B-VII.1	2006	1200.0	62449	2295	20.0	no	no	no	no	yes	
50123.714nc	121.85	ENDF71x	ENDF/B-VII.1	2006	2500.0	62501	2302	20.0	no	no	no	no	yes	
50123.715nc	121.85	ENDF71x	ENDF/B-VII.1	2006	0.1	62185	2257	20.0	no	no	no	no	yes	
50123.716nc	121.85	ENDF71x	ENDF/B-VII.1	2006	250.0	62421	2291	20.0	no	no	no	no	yes	
Sn-124														
50124.80c	122.841	ENDF71x	ENDF/B-VII.1	2006	293.6	237923	26339	20.0	no	no	no	no	no	
50124.81c	122.841	ENDF71x	ENDF/B-VII.1	2006	600.0	230939	25341	20.0	no	no	no	no	no	
50124.82c	122.841	ENDF71x	ENDF/B-VII.1	2006	900.0	227549	24857	20.0	no	no	no	no	no	
50124.83c	122.841	ENDF71x	ENDF/B-VII.1	2006	1200.0	223959	24344	20.0	no	no	no	no	no	
50124.84c	122.841	ENDF71x	ENDF/B-VII.1	2006	2500.0	215062	23073	20.0	no	no	no	no	no	
50124.85c	122.841	ENDF71x	ENDF/B-VII.1	2006	0.1	259121	29367	20.0	no	no	no	no	no	
50124.86c	122.841	ENDF71x	ENDF/B-VII.1	2006	250.0	239438	26555	20.0	no	no	no	no	no	
50124.70c	122.841	endf70e	ENDF/B-VII.0	2006	293.6	237923	26339	20	no	no	no	no	no	
50124.71c	122.841	endf70e	ENDF/B-VII.0	2006	600	230939	25341	20	no	no	no	no	no	
50124.72c	122.841	endf70e	ENDF/B-VII.0	2006	900	227549	24857	20	no	no	no	no	no	
50124.73c	122.841	endf70e	ENDF/B-VII.0	2006	1200	223959	24344	20	no	no	no	no	no	
50124.74c	122.841	endf70e	ENDF/B-VII.0	2006	2500	215062	23073	20	no	no	no	no	no	
50124.710nc	122.841	ENDF71x	ENDF/B-VII.1	2006	293.6	237923	26339	20.0	no	no	no	no	no	
50124.711nc	122.841	ENDF71x	ENDF/B-VII.1	2006	600.0	230939	25341	20.0	no	no	no	no	no	
50124.712nc	122.841	ENDF71x	ENDF/B-VII.1	2006	900.0	227549	24857	20.0	no	no	no	no	no	
50124.713nc	122.841	ENDF71x	ENDF/B-VII.1	2006	1200.0	223959	24344	20.0	no	no	no	no	no	
50124.714nc	122.841	ENDF71x	ENDF/B-VII.1	2006	2500.0	215062	23073	20.0	no	no	no	no	no	
50124.715nc	122.841	ENDF71x	ENDF/B-VII.1	2006	0.1	259121	29367	20.0	no	no	no	no	no	
50124.716nc	122.841	ENDF71x	ENDF/B-VII.1	2006	250.0	239438	26555	20.0	no	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
Sn-125														
50125.80c	123.835	ENDF71x	ENDF/B-VII.1	2006	293.6	173103	3452	20.0	yes	no	yes	no	yes	
50125.81c	123.835	ENDF71x	ENDF/B-VII.1	2006	600.0	171959	3309	20.0	yes	no	yes	no	yes	
50125.82c	123.835	ENDF71x	ENDF/B-VII.1	2006	900.0	171327	3230	20.0	yes	no	yes	no	yes	
50125.83c	123.835	ENDF71x	ENDF/B-VII.1	2006	1200.0	170575	3136	20.0	yes	no	yes	no	yes	
50125.84c	123.835	ENDF71x	ENDF/B-VII.1	2006	2500.0	169815	3041	20.0	yes	no	yes	no	yes	
50125.85c	123.835	ENDF71x	ENDF/B-VII.1	2006	0.1	178599	4139	20.0	yes	no	yes	no	yes	
50125.86c	123.835	ENDF71x	ENDF/B-VII.1	2006	250.0	173375	3486	20.0	yes	no	yes	no	yes	
50125.70c	123.835	endf70e	ENDF/B-VII.0	2006	293.6	174342	3566	20	yes	no	yes	no	yes	
50125.71c	123.835	endf70e	ENDF/B-VII.0	2006	600	173198	3423	20	yes	no	yes	no	yes	
50125.72c	123.835	endf70e	ENDF/B-VII.0	2006	900	172566	3344	20	yes	no	yes	no	yes	
50125.73c	123.835	endf70e	ENDF/B-VII.0	2006	1200	171814	3250	20	yes	no	yes	no	yes	
50125.74c	123.835	endf70e	ENDF/B-VII.0	2006	2500	171054	3155	20	yes	no	yes	no	yes	
50125.42c	116.490608	ENDF71x	ENDF/B-VII.1	2006	300.1	9142	119	30	yes	no	no	no	no	
50125.710nc	123.835	ENDF71x	ENDF/B-VII.1	2006	293.6	173103	3452	20.0	yes	no	yes	no	yes	
50125.711nc	123.835	ENDF71x	ENDF/B-VII.1	2006	600.0	171959	3309	20.0	yes	no	yes	no	yes	
50125.712nc	123.835	ENDF71x	ENDF/B-VII.1	2006	900.0	171327	3230	20.0	yes	no	yes	no	yes	
50125.713nc	123.835	ENDF71x	ENDF/B-VII.1	2006	1200.0	170575	3136	20.0	yes	no	yes	no	yes	
50125.714nc	123.835	ENDF71x	ENDF/B-VII.1	2006	2500.0	169815	3041	20.0	yes	no	yes	no	yes	
50125.715nc	123.835	ENDF71x	ENDF/B-VII.1	2006	0.1	178599	4139	20.0	yes	no	yes	no	yes	
50125.716nc	123.835	ENDF71x	ENDF/B-VII.1	2006	250.0	173375	3486	20.0	yes	no	yes	no	yes	
Sn-126														
50126.80c	124.826	ENDF71x	ENDF/B-VII.1	2006	293.6	44784	1883	20.0	no	no	no	no	yes	
50126.81c	124.826	ENDF71x	ENDF/B-VII.1	2006	600.0	44834	1890	20.0	no	no	no	no	yes	
50126.82c	124.826	ENDF71x	ENDF/B-VII.1	2006	900.0	44828	1889	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
50126.83c	124.826	ENDF71x	ENDF/B-VII.1	2006	1200.0	44777	1882	20.0	no	no	no	no	yes	
50126.84c	124.826	ENDF71x	ENDF/B-VII.1	2006	2500.0	44827	1889	20.0	no	no	no	no	yes	
50126.85c	124.826	ENDF71x	ENDF/B-VII.1	2006	0.1	44826	1889	20.0	no	no	no	no	yes	
50126.86c	124.826	ENDF71x	ENDF/B-VII.1	2006	250.0	44815	1887	20.0	no	no	no	no	yes	
50126.70c	124.826	endf70e	ENDF/B-VII.0	2006	293.6	42673	1901	20	no	no	no	no	no	
50126.71c	124.826	endf70e	ENDF/B-VII.0	2006	600	42723	1908	20	no	no	no	no	no	
50126.72c	124.826	endf70e	ENDF/B-VII.0	2006	900	42717	1907	20	no	no	no	no	no	
50126.73c	124.826	endf70e	ENDF/B-VII.0	2006	1200	42666	1900	20	no	no	no	no	no	
50126.74c	124.826	endf70e	ENDF/B-VII.0	2006	2500	42716	1907	20	no	no	no	no	no	
50126.710nc	124.826	ENDF71x	ENDF/B-VII.1	2006	293.6	44784	1883	20.0	no	no	no	no	yes	
50126.711nc	124.826	ENDF71x	ENDF/B-VII.1	2006	600.0	44834	1890	20.0	no	no	no	no	yes	
50126.712nc	124.826	ENDF71x	ENDF/B-VII.1	2006	900.0	44828	1889	20.0	no	no	no	no	yes	
50126.713nc	124.826	ENDF71x	ENDF/B-VII.1	2006	1200.0	44777	1882	20.0	no	no	no	no	yes	
50126.714nc	124.826	ENDF71x	ENDF/B-VII.1	2006	2500.0	44827	1889	20.0	no	no	no	no	yes	
50126.715nc	124.826	ENDF71x	ENDF/B-VII.1	2006	0.1	44826	1889	20.0	no	no	no	no	yes	
50126.716nc	124.826	ENDF71x	ENDF/B-VII.1	2006	250.0	44815	1887	20.0	no	no	no	no	yes	
Z = 51, antimony														
Sb-0														
51000.42c	120.7041	endl92	LLNL	<1992	300	95953	10721	30	yes	no	no	no	no	
Sb-121														
51121.80c	119.87	ENDF71x	ENDF/B-VII.1	2006	293.6	286492	32714	20.0	no	no	no	no	yes	
51121.81c	119.87	ENDF71x	ENDF/B-VII.1	2006	600.0	270406	30416	20.0	no	no	no	no	yes	
51121.82c	119.87	ENDF71x	ENDF/B-VII.1	2006	900.0	260289	28971	20.0	no	no	no	no	yes	
51121.83c	119.87	ENDF71x	ENDF/B-VII.1	2006	1200.0	253676	28026	20.0	no	no	no	no	yes	
51121.84c	119.87	ENDF71x	ENDF/B-VII.1	2006	2500.0	233319	25118	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
51121.85c	119.87	ENDF71x	ENDF/B-VII.1	2006	0.1	407458	49995	20.0	no	no	no	no	yes	
51121.86c	119.87	ENDF71x	ENDF/B-VII.1	2006	250.0	290488	33285	20.0	no	no	no	no	yes	
51121.70c	119.87	endf70e	ENDF/B-VII.0	2006	293.6	287205	32796	20	no	no	no	no	yes	
51121.71c	119.87	endf70e	ENDF/B-VII.0	2006	600	271119	30498	20	no	no	no	no	yes	
51121.72c	119.87	endf70e	ENDF/B-VII.0	2006	900	261002	29053	20	no	no	no	no	yes	
51121.73c	119.87	endf70e	ENDF/B-VII.0	2006	1200	254389	28108	20	no	no	no	no	yes	
51121.74c	119.87	endf70e	ENDF/B-VII.0	2006	2500	234032	25200	20	no	no	no	no	yes	
51121.710nc	119.87	ENDF71x	ENDF/B-VII.1	2006	293.6	286492	32714	20.0	no	no	no	no	yes	
51121.711nc	119.87	ENDF71x	ENDF/B-VII.1	2006	600.0	270406	30416	20.0	no	no	no	no	yes	
51121.712nc	119.87	ENDF71x	ENDF/B-VII.1	2006	900.0	260289	28971	20.0	no	no	no	no	yes	
51121.713nc	119.87	ENDF71x	ENDF/B-VII.1	2006	1200.0	253676	28026	20.0	no	no	no	no	yes	
51121.714nc	119.87	ENDF71x	ENDF/B-VII.1	2006	2500.0	233319	25118	20.0	no	no	no	no	yes	
51121.715nc	119.87	ENDF71x	ENDF/B-VII.1	2006	0.1	407458	49995	20.0	no	no	no	no	yes	
51121.716nc	119.87	ENDF71x	ENDF/B-VII.1	2006	250.0	290488	33285	20.0	no	no	no	no	yes	
Sb-123														
51123.80c	121.85	ENDF71x	ENDF/B-VII.1	2006	293.6	258766	30517	20.0	no	no	no	no	yes	
51123.81c	121.85	ENDF71x	ENDF/B-VII.1	2006	600.0	244620	28496	20.0	no	no	no	no	yes	
51123.82c	121.85	ENDF71x	ENDF/B-VII.1	2006	900.0	236507	27337	20.0	no	no	no	no	yes	
51123.83c	121.85	ENDF71x	ENDF/B-VII.1	2006	1200.0	230073	26418	20.0	no	no	no	no	yes	
51123.84c	121.85	ENDF71x	ENDF/B-VII.1	2006	2500.0	211972	23832	20.0	no	no	no	no	yes	
51123.85c	121.85	ENDF71x	ENDF/B-VII.1	2006	0.1	362962	45402	20.0	no	no	no	no	yes	
51123.86c	121.85	ENDF71x	ENDF/B-VII.1	2006	250.0	261076	30847	20.0	no	no	no	no	yes	
51123.70c	121.85	endf70e	ENDF/B-VII.0	2006	293.6	259196	30580	20	no	no	no	no	yes	
51123.71c	121.85	endf70e	ENDF/B-VII.0	2006	600	245050	28559	20	no	no	no	no	yes	
51123.72c	121.85	endf70e	ENDF/B-VII.0	2006	900	236937	27400	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
51123.73c	121.85	endf70e	ENDF/B-VII.0	2006	1200	230503	26481	20	no	no	no	no	yes	
51123.74c	121.85	endf70e	ENDF/B-VII.0	2006	2500	212402	23895	20	no	no	no	no	yes	
51123.710nc	121.85	ENDF71x	ENDF/B-VII.1	2006	293.6	258766	30517	20.0	no	no	no	no	yes	
51123.711nc	121.85	ENDF71x	ENDF/B-VII.1	2006	600.0	244620	28496	20.0	no	no	no	no	yes	
51123.712nc	121.85	ENDF71x	ENDF/B-VII.1	2006	900.0	236507	27337	20.0	no	no	no	no	yes	
51123.713nc	121.85	ENDF71x	ENDF/B-VII.1	2006	1200.0	230073	26418	20.0	no	no	no	no	yes	
51123.714nc	121.85	ENDF71x	ENDF/B-VII.1	2006	2500.0	211972	23832	20.0	no	no	no	no	yes	
51123.715nc	121.85	ENDF71x	ENDF/B-VII.1	2006	0.1	362962	45402	20.0	no	no	no	no	yes	
51123.716nc	121.85	ENDF71x	ENDF/B-VII.1	2006	250.0	261076	30847	20.0	no	no	no	no	yes	
Sb-124														
51124.80c	122.842	ENDF71x	ENDF/B-VII.1	2006	293.6	57776	2574	20.0	no	no	no	no	yes	
51124.81c	122.842	ENDF71x	ENDF/B-VII.1	2006	600.0	57748	2570	20.0	no	no	no	no	yes	
51124.82c	122.842	ENDF71x	ENDF/B-VII.1	2006	900.0	57776	2574	20.0	no	no	no	no	yes	
51124.83c	122.842	ENDF71x	ENDF/B-VII.1	2006	1200.0	57769	2573	20.0	no	no	no	no	yes	
51124.84c	122.842	ENDF71x	ENDF/B-VII.1	2006	2500.0	57736	2568	20.0	no	no	no	no	yes	
51124.85c	122.842	ENDF71x	ENDF/B-VII.1	2006	0.1	57755	2571	20.0	no	no	no	no	yes	
51124.86c	122.842	ENDF71x	ENDF/B-VII.1	2006	250.0	57792	2576	20.0	no	no	no	no	yes	
51124.70c	122.842	endf70e	ENDF/B-VII.0	2006	293.6	57089	2632	20	no	no	no	no	yes	
51124.71c	122.842	endf70e	ENDF/B-VII.0	2006	600	57061	2628	20	no	no	no	no	yes	
51124.72c	122.842	endf70e	ENDF/B-VII.0	2006	900	57089	2632	20	no	no	no	no	yes	
51124.73c	122.842	endf70e	ENDF/B-VII.0	2006	1200	57082	2631	20	no	no	no	no	yes	
51124.74c	122.842	endf70e	ENDF/B-VII.0	2006	2500	57049	2626	20	no	no	no	no	yes	
51124.710nc	122.842	ENDF71x	ENDF/B-VII.1	2006	293.6	57776	2574	20.0	no	no	no	no	yes	
51124.711nc	122.842	ENDF71x	ENDF/B-VII.1	2006	600.0	57748	2570	20.0	no	no	no	no	yes	
51124.712nc	122.842	ENDF71x	ENDF/B-VII.1	2006	900.0	57776	2574	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
51124.713nc	122.842	ENDF71x	ENDF/B-VII.1	2006	1200.0	57769	2573	20.0	no	no	no	no	yes	
51124.714nc	122.842	ENDF71x	ENDF/B-VII.1	2006	2500.0	57736	2568	20.0	no	no	no	no	yes	
51124.715nc	122.842	ENDF71x	ENDF/B-VII.1	2006	0.1	57755	2571	20.0	no	no	no	no	yes	
51124.716nc	122.842	ENDF71x	ENDF/B-VII.1	2006	250.0	57792	2576	20.0	no	no	no	no	yes	
Sb-125														
51125.80c	123.832	ENDF71x	ENDF/B-VII.1	2006	293.6	108587	2603	20.0	no	no	no	no	yes	
51125.81c	123.832	ENDF71x	ENDF/B-VII.1	2006	600.0	108552	2598	20.0	no	no	no	no	yes	
51125.82c	123.832	ENDF71x	ENDF/B-VII.1	2006	900.0	108594	2604	20.0	no	no	no	no	yes	
51125.83c	123.832	ENDF71x	ENDF/B-VII.1	2006	1200.0	108579	2602	20.0	no	no	no	no	yes	
51125.84c	123.832	ENDF71x	ENDF/B-VII.1	2006	2500.0	108544	2597	20.0	no	no	no	no	yes	
51125.85c	123.832	ENDF71x	ENDF/B-VII.1	2006	0.1	108313	2564	20.0	no	no	no	no	yes	
51125.86c	123.832	ENDF71x	ENDF/B-VII.1	2006	250.0	108595	2604	20.0	no	no	no	no	yes	
51125.70c	123.832	endf70e	ENDF/B-VII.0	2006	293.6	103975	2663	20	no	no	no	no	no	
51125.71c	123.832	endf70e	ENDF/B-VII.0	2006	600	103940	2658	20	no	no	no	no	no	
51125.72c	123.832	endf70e	ENDF/B-VII.0	2006	900	103982	2664	20	no	no	no	no	no	
51125.73c	123.832	endf70e	ENDF/B-VII.0	2006	1200	103967	2662	20	no	no	no	no	no	
51125.74c	123.832	endf70e	ENDF/B-VII.0	2006	2500	103939	2658	20	no	no	no	no	no	
51125.710nc	123.832	ENDF71x	ENDF/B-VII.1	2006	293.6	108587	2603	20.0	no	no	no	no	yes	
51125.711nc	123.832	ENDF71x	ENDF/B-VII.1	2006	600.0	108552	2598	20.0	no	no	no	no	yes	
51125.712nc	123.832	ENDF71x	ENDF/B-VII.1	2006	900.0	108594	2604	20.0	no	no	no	no	yes	
51125.713nc	123.832	ENDF71x	ENDF/B-VII.1	2006	1200.0	108579	2602	20.0	no	no	no	no	yes	
51125.714nc	123.832	ENDF71x	ENDF/B-VII.1	2006	2500.0	108544	2597	20.0	no	no	no	no	yes	
51125.715nc	123.832	ENDF71x	ENDF/B-VII.1	2006	0.1	108313	2564	20.0	no	no	no	no	yes	
51125.716nc	123.832	ENDF71x	ENDF/B-VII.1	2006	250.0	108595	2604	20.0	no	no	no	no	yes	
Sb-126														

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
51126.80c	124.826	ENDF71x	ENDF/B-VII.1	2006	293.6	292023	16509	20.0	yes	no	yes	no	yes	
51126.81c	124.826	ENDF71x	ENDF/B-VII.1	2006	600.0	279839	14986	20.0	yes	no	yes	no	yes	
51126.82c	124.826	ENDF71x	ENDF/B-VII.1	2006	900.0	273087	14142	20.0	yes	no	yes	no	yes	
51126.83c	124.826	ENDF71x	ENDF/B-VII.1	2006	1200.0	267183	13404	20.0	yes	no	yes	no	yes	
51126.84c	124.826	ENDF71x	ENDF/B-VII.1	2006	2500.0	254480	11816	20.0	yes	no	yes	no	yes	
51126.85c	124.826	ENDF71x	ENDF/B-VII.1	2006	0.1	345951	23250	20.0	yes	no	yes	no	yes	
51126.86c	124.826	ENDF71x	ENDF/B-VII.1	2006	250.0	294327	16797	20.0	yes	no	yes	no	yes	
51126.70c	124.826	endf70e	ENDF/B-VII.0	2006	293.6	293262	16632	20	yes	no	yes	no	yes	
51126.71c	124.826	endf70e	ENDF/B-VII.0	2006	600	281078	15109	20	yes	no	yes	no	yes	
51126.72c	124.826	endf70e	ENDF/B-VII.0	2006	900	274326	14265	20	yes	no	yes	no	yes	
51126.73c	124.826	endf70e	ENDF/B-VII.0	2006	1200	268422	13527	20	yes	no	yes	no	yes	
51126.74c	124.826	endf70e	ENDF/B-VII.0	2006	2500	255719	11939	20	yes	no	yes	no	yes	
51126.710nc	124.826	ENDF71x	ENDF/B-VII.1	2006	293.6	292023	16509	20.0	yes	no	yes	no	yes	
51126.711nc	124.826	ENDF71x	ENDF/B-VII.1	2006	600.0	279839	14986	20.0	yes	no	yes	no	yes	
51126.712nc	124.826	ENDF71x	ENDF/B-VII.1	2006	900.0	273087	14142	20.0	yes	no	yes	no	yes	
51126.713nc	124.826	ENDF71x	ENDF/B-VII.1	2006	1200.0	267183	13404	20.0	yes	no	yes	no	yes	
51126.714nc	124.826	ENDF71x	ENDF/B-VII.1	2006	2500.0	254480	11816	20.0	yes	no	yes	no	yes	
51126.715nc	124.826	ENDF71x	ENDF/B-VII.1	2006	0.1	345951	23250	20.0	yes	no	yes	no	yes	
51126.716nc	124.826	ENDF71x	ENDF/B-VII.1	2006	250.0	294327	16797	20.0	yes	no	yes	no	yes	
				$Z = 52$, tellurium										
Te-120														
52120.80c	118.874	ENDF71x	ENDF/B-VII.1	2006	293.6	72586	2695	20.0	no	no	no	no	yes	
52120.81c	118.874	ENDF71x	ENDF/B-VII.1	2006	600.0	72629	2701	20.0	no	no	no	no	yes	
52120.82c	118.874	ENDF71x	ENDF/B-VII.1	2006	900.0	72662	2706	20.0	no	no	no	no	yes	
52120.83c	118.874	ENDF71x	ENDF/B-VII.1	2006	1200.0	72676	2708	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
52120.84c	118.874	ENDF71x	ENDF/B-VII.1	2006	2500.0	72662	2706	20.0	no	no	no	no	yes	
52120.85c	118.874	ENDF71x	ENDF/B-VII.1	2006	0.1	72446	2675	20.0	no	no	no	no	yes	
52120.86c	118.874	ENDF71x	ENDF/B-VII.1	2006	250.0	72585	2695	20.0	no	no	no	no	yes	
52120.70c	118.874	endf70e	ENDF/B-VII.0	2006	293.6	71922	2727	20	no	no	no	no	yes	
52120.71c	118.874	endf70e	ENDF/B-VII.0	2006	600	71965	2733	20	no	no	no	no	yes	
52120.72c	118.874	endf70e	ENDF/B-VII.0	2006	900	71998	2738	20	no	no	no	no	yes	
52120.73c	118.874	endf70e	ENDF/B-VII.0	2006	1200	72012	2740	20	no	no	no	no	yes	
52120.74c	118.874	endf70e	ENDF/B-VII.0	2006	2500	71998	2738	20	no	no	no	no	yes	
52120.710nc	118.874	ENDF71x	ENDF/B-VII.1	2006	293.6	72586	2695	20.0	no	no	no	no	yes	
52120.711nc	118.874	ENDF71x	ENDF/B-VII.1	2006	600.0	72629	2701	20.0	no	no	no	no	yes	
52120.712nc	118.874	ENDF71x	ENDF/B-VII.1	2006	900.0	72662	2706	20.0	no	no	no	no	yes	
52120.713nc	118.874	ENDF71x	ENDF/B-VII.1	2006	1200.0	72676	2708	20.0	no	no	no	no	yes	
52120.714nc	118.874	ENDF71x	ENDF/B-VII.1	2006	2500.0	72662	2706	20.0	no	no	no	no	yes	
52120.715nc	118.874	ENDF71x	ENDF/B-VII.1	2006	0.1	72446	2675	20.0	no	no	no	no	yes	
52120.716nc	118.874	ENDF71x	ENDF/B-VII.1	2006	250.0	72585	2695	20.0	no	no	no	no	yes	
Te-122														
52122.80c	120.856	ENDF71x	ENDF/B-VII.1	2006	293.6	300745	37521	20.0	no	no	no	no	yes	
52122.81c	120.856	ENDF71x	ENDF/B-VII.1	2006	600.0	286313	35459	20.0	no	no	no	no	yes	
52122.82c	120.856	ENDF71x	ENDF/B-VII.1	2006	900.0	276274	34025	20.0	no	no	no	no	yes	
52122.83c	120.856	ENDF71x	ENDF/B-VII.1	2006	1200.0	268708	32944	20.0	no	no	no	no	yes	
52122.84c	120.856	ENDF71x	ENDF/B-VII.1	2006	2500.0	249312	30173	20.0	no	no	no	no	yes	
52122.85c	120.856	ENDF71x	ENDF/B-VII.1	2006	0.1	392146	50578	20.0	no	no	no	no	yes	
52122.86c	120.856	ENDF71x	ENDF/B-VII.1	2006	250.0	303590	37927	20.0	no	no	no	no	yes	
52122.70c	120.856	endf70e	ENDF/B-VII.0	2006	293.6	301100	37566	20	no	no	no	no	yes	
52122.71c	120.856	endf70e	ENDF/B-VII.0	2006	600	286668	35504	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
52122.72c	120.856	endf70e	ENDF/B-VII.0	2006	900	276629	34070	20	no	no	no	no	yes	
52122.73c	120.856	endf70e	ENDF/B-VII.0	2006	1200	269063	32989	20	no	no	no	no	yes	
52122.74c	120.856	endf70e	ENDF/B-VII.0	2006	2500	249667	30218	20	no	no	no	no	yes	
52122.710nc	120.856	ENDF71x	ENDF/B-VII.1	2006	293.6	300745	37521	20.0	no	no	no	no	yes	
52122.711nc	120.856	ENDF71x	ENDF/B-VII.1	2006	600.0	286313	35459	20.0	no	no	no	no	yes	
52122.712nc	120.856	ENDF71x	ENDF/B-VII.1	2006	900.0	276274	34025	20.0	no	no	no	no	yes	
52122.713nc	120.856	ENDF71x	ENDF/B-VII.1	2006	1200.0	268708	32944	20.0	no	no	no	no	yes	
52122.714nc	120.856	ENDF71x	ENDF/B-VII.1	2006	2500.0	249312	30173	20.0	no	no	no	no	yes	
52122.715nc	120.856	ENDF71x	ENDF/B-VII.1	2006	0.1	392146	50578	20.0	no	no	no	no	yes	
52122.716nc	120.856	ENDF71x	ENDF/B-VII.1	2006	250.0	303590	37927	20.0	no	no	no	no	yes	
Te-123														
52123.80c	121.848	ENDF71x	ENDF/B-VII.1	2006	293.6	187533	14308	20.0	no	no	no	no	yes	
52123.81c	121.848	ENDF71x	ENDF/B-VII.1	2006	600.0	181556	13644	20.0	no	no	no	no	yes	
52123.82c	121.848	ENDF71x	ENDF/B-VII.1	2006	900.0	177247	13165	20.0	no	no	no	no	yes	
52123.83c	121.848	ENDF71x	ENDF/B-VII.1	2006	1200.0	174790	12892	20.0	no	no	no	no	yes	
52123.84c	121.848	ENDF71x	ENDF/B-VII.1	2006	2500.0	167859	12122	20.0	no	no	no	no	yes	
52123.85c	121.848	ENDF71x	ENDF/B-VII.1	2006	0.1	216918	17573	20.0	no	no	no	no	yes	
52123.86c	121.848	ENDF71x	ENDF/B-VII.1	2006	250.0	188685	14436	20.0	no	no	no	no	yes	
52123.70c	121.848	endf70e	ENDF/B-VII.0	2006	293.6	187718	14347	20	no	no	no	no	yes	
52123.71c	121.848	endf70e	ENDF/B-VII.0	2006	600	181741	13683	20	no	no	no	no	yes	
52123.72c	121.848	endf70e	ENDF/B-VII.0	2006	900	177431	13204	20	no	no	no	no	yes	
52123.73c	121.848	endf70e	ENDF/B-VII.0	2006	1200	174974	12931	20	no	no	no	no	yes	
52123.74c	121.848	endf70e	ENDF/B-VII.0	2006	2500	168044	12161	20	no	no	no	no	yes	
52123.710nc	121.848	ENDF71x	ENDF/B-VII.1	2006	293.6	187533	14308	20.0	no	no	no	no	yes	
52123.711nc	121.848	ENDF71x	ENDF/B-VII.1	2006	600.0	181556	13644	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
52123.712nc	121.848	ENDF71x	ENDF/B-VII.1	2006	900.0	177247	13165	20.0	no	no	no	no	yes	
52123.713nc	121.848	ENDF71x	ENDF/B-VII.1	2006	1200.0	174790	12892	20.0	no	no	no	no	yes	
52123.714nc	121.848	ENDF71x	ENDF/B-VII.1	2006	2500.0	167859	12122	20.0	no	no	no	no	yes	
52123.715nc	121.848	ENDF71x	ENDF/B-VII.1	2006	0.1	216918	17573	20.0	no	no	no	no	yes	
52123.716nc	121.848	ENDF71x	ENDF/B-VII.1	2006	250.0	188685	14436	20.0	no	no	no	no	yes	
Te-124														
52124.80c	122.839	ENDF71x	ENDF/B-VII.1	2006	293.6	235338	25945	20.0	no	no	no	no	yes	
52124.81c	122.839	ENDF71x	ENDF/B-VII.1	2006	600.0	223913	24313	20.0	no	no	no	no	yes	
52124.82c	122.839	ENDF71x	ENDF/B-VII.1	2006	900.0	217781	23437	20.0	no	no	no	no	yes	
52124.83c	122.839	ENDF71x	ENDF/B-VII.1	2006	1200.0	212497	22682	20.0	no	no	no	no	yes	
52124.84c	122.839	ENDF71x	ENDF/B-VII.1	2006	2500.0	199401	20811	20.0	no	no	no	no	yes	
52124.85c	122.839	ENDF71x	ENDF/B-VII.1	2006	0.1	313709	37141	20.0	no	no	no	no	yes	
52124.86c	122.839	ENDF71x	ENDF/B-VII.1	2006	250.0	237745	26289	20.0	no	no	no	no	yes	
52124.70c	122.839	endf70e	ENDF/B-VII.0	2006	293.6	235499	25990	20	no	no	no	no	yes	
52124.71c	122.839	endf70e	ENDF/B-VII.0	2006	600	224074	24358	20	no	no	no	no	yes	
52124.72c	122.839	endf70e	ENDF/B-VII.0	2006	900	217942	23482	20	no	no	no	no	yes	
52124.73c	122.839	endf70e	ENDF/B-VII.0	2006	1200	212658	22727	20	no	no	no	no	yes	
52124.74c	122.839	endf70e	ENDF/B-VII.0	2006	2500	199562	20856	20	no	no	no	no	yes	
52124.710nc	122.839	ENDF71x	ENDF/B-VII.1	2006	293.6	235338	25945	20.0	no	no	no	no	yes	
52124.711nc	122.839	ENDF71x	ENDF/B-VII.1	2006	600.0	223913	24313	20.0	no	no	no	no	yes	
52124.712nc	122.839	ENDF71x	ENDF/B-VII.1	2006	900.0	217781	23437	20.0	no	no	no	no	yes	
52124.713nc	122.839	ENDF71x	ENDF/B-VII.1	2006	1200.0	212497	22682	20.0	no	no	no	no	yes	
52124.714nc	122.839	ENDF71x	ENDF/B-VII.1	2006	2500.0	199401	20811	20.0	no	no	no	no	yes	
52124.715nc	122.839	ENDF71x	ENDF/B-VII.1	2006	0.1	313709	37141	20.0	no	no	no	no	yes	
52124.716nc	122.839	ENDF71x	ENDF/B-VII.1	2006	250.0	237745	26289	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
Te-125														
52125.80c	123.831	ENDF71x	ENDF/B-VII.1	2006	293.6	322021	37051	20.0	no	no	no	no	yes	
52125.81c	123.831	ENDF71x	ENDF/B-VII.1	2006	600.0	301301	34091	20.0	no	no	no	no	yes	
52125.82c	123.831	ENDF71x	ENDF/B-VII.1	2006	900.0	288184	32217	20.0	no	no	no	no	yes	
52125.83c	123.831	ENDF71x	ENDF/B-VII.1	2006	1200.0	278376	30816	20.0	no	no	no	no	yes	
52125.84c	123.831	ENDF71x	ENDF/B-VII.1	2006	2500.0	252924	27180	20.0	no	no	no	no	yes	
52125.85c	123.831	ENDF71x	ENDF/B-VII.1	2006	0.1	444975	54616	20.0	no	no	no	no	yes	
52125.86c	123.831	ENDF71x	ENDF/B-VII.1	2006	250.0	326004	37620	20.0	no	no	no	no	yes	
52125.70c	123.831	endf70e	ENDF/B-VII.0	2006	293.6	322126	37079	20	no	no	no	no	yes	
52125.71c	123.831	endf70e	ENDF/B-VII.0	2006	600	301406	34119	20	no	no	no	no	yes	
52125.72c	123.831	endf70e	ENDF/B-VII.0	2006	900	288289	32245	20	no	no	no	no	yes	
52125.73c	123.831	endf70e	ENDF/B-VII.0	2006	1200	278481	30844	20	no	no	no	no	yes	
52125.74c	123.831	endf70e	ENDF/B-VII.0	2006	2500	253029	27208	20	no	no	no	no	yes	
52125.710nc	123.831	ENDF71x	ENDF/B-VII.1	2006	293.6	322021	37051	20.0	no	no	no	no	yes	
52125.711nc	123.831	ENDF71x	ENDF/B-VII.1	2006	600.0	301301	34091	20.0	no	no	no	no	yes	
52125.712nc	123.831	ENDF71x	ENDF/B-VII.1	2006	900.0	288184	32217	20.0	no	no	no	no	yes	
52125.713nc	123.831	ENDF71x	ENDF/B-VII.1	2006	1200.0	278376	30816	20.0	no	no	no	no	yes	
52125.714nc	123.831	ENDF71x	ENDF/B-VII.1	2006	2500.0	252924	27180	20.0	no	no	no	no	yes	
52125.715nc	123.831	ENDF71x	ENDF/B-VII.1	2006	0.1	444975	54616	20.0	no	no	no	no	yes	
52125.716nc	123.831	ENDF71x	ENDF/B-VII.1	2006	250.0	326004	37620	20.0	no	no	no	no	yes	
Te-126														
52126.80c	124.821	ENDF71x	ENDF/B-VII.1	2006	293.6	134167	12354	20.0	no	no	no	no	yes	
52126.81c	124.821	ENDF71x	ENDF/B-VII.1	2006	600.0	130541	11836	20.0	no	no	no	no	yes	
52126.82c	124.821	ENDF71x	ENDF/B-VII.1	2006	900.0	129254	11652	20.0	no	no	no	no	yes	
52126.83c	124.821	ENDF71x	ENDF/B-VII.1	2006	1200.0	127944	11465	20.0	no	no	no	no	yes	

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
52126.84c	124.821	ENDF71x	ENDF/B-VII.1	2006	2500.0	124215	10932	20.0	no	no	no	no	yes	
52126.85c	124.821	ENDF71x	ENDF/B-VII.1	2006	0.1	162182	16356	20.0	no	no	no	no	yes	
52126.86c	124.821	ENDF71x	ENDF/B-VII.1	2006	250.0	134636	12421	20.0	no	no	no	no	yes	
52126.70c	124.821	endf70e	ENDF/B-VII.0	2006	293.6	134252	12402	20	no	no	no	no	yes	
52126.71c	124.821	endf70e	ENDF/B-VII.0	2006	600	130626	11884	20	no	no	no	no	yes	
52126.72c	124.821	endf70e	ENDF/B-VII.0	2006	900	129339	11700	20	no	no	no	no	yes	
52126.73c	124.821	endf70e	ENDF/B-VII.0	2006	1200	128029	11513	20	no	no	no	no	yes	
52126.74c	124.821	endf70e	ENDF/B-VII.0	2006	2500	124300	10980	20	no	no	no	no	yes	
52126.710nc	124.821	ENDF71x	ENDF/B-VII.1	2006	293.6	134167	12354	20.0	no	no	no	no	yes	
52126.711nc	124.821	ENDF71x	ENDF/B-VII.1	2006	600.0	130541	11836	20.0	no	no	no	no	yes	
52126.712nc	124.821	ENDF71x	ENDF/B-VII.1	2006	900.0	129254	11652	20.0	no	no	no	no	yes	
52126.713nc	124.821	ENDF71x	ENDF/B-VII.1	2006	1200.0	127944	11465	20.0	no	no	no	no	yes	
52126.714nc	124.821	ENDF71x	ENDF/B-VII.1	2006	2500.0	124215	10932	20.0	no	no	no	no	yes	
52126.715nc	124.821	ENDF71x	ENDF/B-VII.1	2006	0.1	162182	16356	20.0	no	no	no	no	yes	
52126.716nc	124.821	ENDF71x	ENDF/B-VII.1	2006	250.0	134636	12421	20.0	no	no	no	no	yes	
Te-127														
1052127.710nc	125.815	ENDF71x	ENDF/B-VII.1	2006	293.6	82591	2481	20.0	no	no	no	no	yes	
1052127.711nc	125.815	ENDF71x	ENDF/B-VII.1	2006	600.0	82593	2481	20.0	no	no	no	no	yes	
1052127.712nc	125.815	ENDF71x	ENDF/B-VII.1	2006	900.0	82591	2481	20.0	no	no	no	no	yes	
1052127.713nc	125.815	ENDF71x	ENDF/B-VII.1	2006	1200.0	82593	2481	20.0	no	no	no	no	yes	
1052127.714nc	125.815	ENDF71x	ENDF/B-VII.1	2006	2500.0	82594	2481	20.0	no	no	no	no	yes	
1052127.715nc	125.815	ENDF71x	ENDF/B-VII.1	2006	0.1	82598	2482	20.0	no	no	no	no	yes	
1052127.716nc	125.815	ENDF71x	ENDF/B-VII.1	2006	250.0	82591	2481	20.0	no	no	no	no	yes	
Te-128														
52128.80c	126.805	ENDF71x	ENDF/B-VII.1	2006	293.6	111225	10164	20.0	no	no	no	no	yes	

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
52128.81c	126.805	ENDF71x	ENDF/B-VII.1	2006	600.0	108236	9737	20.0	no	no	no	no	yes	
52128.82c	126.805	ENDF71x	ENDF/B-VII.1	2006	900.0	107047	9567	20.0	no	no	no	no	yes	
52128.83c	126.805	ENDF71x	ENDF/B-VII.1	2006	1200.0	106031	9422	20.0	no	no	no	no	yes	
52128.84c	126.805	ENDF71x	ENDF/B-VII.1	2006	2500.0	103183	9015	20.0	no	no	no	no	yes	
52128.85c	126.805	ENDF71x	ENDF/B-VII.1	2006	0.1	129488	12773	20.0	no	no	no	no	yes	
52128.86c	126.805	ENDF71x	ENDF/B-VII.1	2006	250.0	111673	10228	20.0	no	no	no	no	yes	
52128.70c	126.805	endf70e	ENDF/B-VII.0	2006	293.6	111708	10210	20	no	no	no	no	yes	
52128.71c	126.805	endf70e	ENDF/B-VII.0	2006	600	108719	9783	20	no	no	no	no	yes	
52128.72c	126.805	endf70e	ENDF/B-VII.0	2006	900	107530	9613	20	no	no	no	no	yes	
52128.73c	126.805	endf70e	ENDF/B-VII.0	2006	1200	106514	9468	20	no	no	no	no	yes	
52128.74c	126.805	endf70e	ENDF/B-VII.0	2006	2500	103666	9061	20	no	no	no	no	yes	
52128.710nc	126.805	ENDF71x	ENDF/B-VII.1	2006	293.6	111225	10164	20.0	no	no	no	no	yes	
52128.711nc	126.805	ENDF71x	ENDF/B-VII.1	2006	600.0	108236	9737	20.0	no	no	no	no	yes	
52128.712nc	126.805	ENDF71x	ENDF/B-VII.1	2006	900.0	107047	9567	20.0	no	no	no	no	yes	
52128.713nc	126.805	ENDF71x	ENDF/B-VII.1	2006	1200.0	106031	9422	20.0	no	no	no	no	yes	
52128.714nc	126.805	ENDF71x	ENDF/B-VII.1	2006	2500.0	103183	9015	20.0	no	no	no	no	yes	
52128.715nc	126.805	ENDF71x	ENDF/B-VII.1	2006	0.1	129488	12773	20.0	no	no	no	no	yes	
52128.716nc	126.805	ENDF71x	ENDF/B-VII.1	2006	250.0	111673	10228	20.0	no	no	no	no	yes	
Te-129														
1052129.710nc	127.8	ENDF71x	ENDF/B-VII.1	2006	293.6	95710	2457	20.0	no	no	no	no	yes	
1052129.711nc	127.8	ENDF71x	ENDF/B-VII.1	2006	600.0	95710	2457	20.0	no	no	no	no	yes	
1052129.712nc	127.8	ENDF71x	ENDF/B-VII.1	2006	900.0	95711	2457	20.0	no	no	no	no	yes	
1052129.713nc	127.8	ENDF71x	ENDF/B-VII.1	2006	1200.0	95710	2457	20.0	no	no	no	no	yes	
1052129.714nc	127.8	ENDF71x	ENDF/B-VII.1	2006	2500.0	95711	2457	20.0	no	no	no	no	yes	
1052129.715nc	127.8	ENDF71x	ENDF/B-VII.1	2006	0.1	95724	2459	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
1052129.716nc	127.8	ENDF71x	ENDF/B-VII.1	2006	250.0	95710	2457	20.0	no	no	no	no	yes	
Te-130														
52130.80c	128.79	ENDF71x	ENDF/B-VII.1	2006	293.6	79470	5260	20.0	no	no	no	no	yes	
52130.81c	128.79	ENDF71x	ENDF/B-VII.1	2006	600.0	78702	5150	20.0	no	no	no	no	yes	
52130.82c	128.79	ENDF71x	ENDF/B-VII.1	2006	900.0	77547	4985	20.0	no	no	no	no	yes	
52130.83c	128.79	ENDF71x	ENDF/B-VII.1	2006	1200.0	77244	4942	20.0	no	no	no	no	yes	
52130.84c	128.79	ENDF71x	ENDF/B-VII.1	2006	2500.0	75908	4751	20.0	no	no	no	no	yes	
52130.85c	128.79	ENDF71x	ENDF/B-VII.1	2006	0.1	89746	6728	20.0	no	no	no	no	yes	
52130.86c	128.79	ENDF71x	ENDF/B-VII.1	2006	250.0	79919	5324	20.0	no	no	no	no	yes	
52130.70c	128.79	endf70e	ENDF/B-VII.0	2006	293.6	79906	5312	20	no	no	no	no	yes	
52130.71c	128.79	endf70e	ENDF/B-VII.0	2006	600	79138	5202	20	no	no	no	no	yes	
52130.72c	128.79	endf70e	ENDF/B-VII.0	2006	900	77983	5037	20	no	no	no	no	yes	
52130.73c	128.79	endf70e	ENDF/B-VII.0	2006	1200	77680	4994	20	no	no	no	no	yes	
52130.74c	128.79	endf70e	ENDF/B-VII.0	2006	2500	76344	4803	20	no	no	no	no	yes	
52130.710nc	128.79	ENDF71x	ENDF/B-VII.1	2006	293.6	79470	5260	20.0	no	no	no	no	yes	
52130.711nc	128.79	ENDF71x	ENDF/B-VII.1	2006	600.0	78702	5150	20.0	no	no	no	no	yes	
52130.712nc	128.79	ENDF71x	ENDF/B-VII.1	2006	900.0	77547	4985	20.0	no	no	no	no	yes	
52130.713nc	128.79	ENDF71x	ENDF/B-VII.1	2006	1200.0	77244	4942	20.0	no	no	no	no	yes	
52130.714nc	128.79	ENDF71x	ENDF/B-VII.1	2006	2500.0	75908	4751	20.0	no	no	no	no	yes	
52130.715nc	128.79	ENDF71x	ENDF/B-VII.1	2006	0.1	89746	6728	20.0	no	no	no	no	yes	
52130.716nc	128.79	ENDF71x	ENDF/B-VII.1	2006	250.0	79919	5324	20.0	no	no	no	no	yes	
Te-132														
52132.80c	130.775	ENDF71x	ENDF/B-VII.1	2006	293.6	263722	5452	20.0	yes	no	yes	no	yes	
52132.81c	130.775	ENDF71x	ENDF/B-VII.1	2006	600.0	262690	5323	20.0	yes	no	yes	no	yes	
52132.82c	130.775	ENDF71x	ENDF/B-VII.1	2006	900.0	261642	5192	20.0	yes	no	yes	no	yes	

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Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
52132.83c	130.775	ENDF71x	ENDF/B-VII.1	2006	1200.0	261011	5113	20.0	yes	no	yes	no	yes	
52132.84c	130.775	ENDF71x	ENDF/B-VII.1	2006	2500.0	259474	4921	20.0	yes	no	yes	no	yes	
52132.85c	130.775	ENDF71x	ENDF/B-VII.1	2006	0.1	273114	6626	20.0	yes	no	yes	no	yes	
52132.86c	130.775	ENDF71x	ENDF/B-VII.1	2006	250.0	264034	5491	20.0	yes	no	yes	no	yes	
52132.70c	130.775	endf70e	ENDF/B-VII.0	2006	293.6	264084	5510	20	yes	no	yes	no	yes	
52132.71c	130.775	endf70e	ENDF/B-VII.0	2006	600	263052	5381	20	yes	no	yes	no	yes	
52132.72c	130.775	endf70e	ENDF/B-VII.0	2006	900	262004	5250	20	yes	no	yes	no	yes	
52132.73c	130.775	endf70e	ENDF/B-VII.0	2006	1200	261373	5171	20	yes	no	yes	no	yes	
52132.74c	130.775	endf70e	ENDF/B-VII.0	2006	2500	259836	4979	20	yes	no	yes	no	yes	
52132.710nc	130.775	ENDF71x	ENDF/B-VII.1	2006	293.6	263722	5452	20.0	yes	no	yes	no	yes	
52132.711nc	130.775	ENDF71x	ENDF/B-VII.1	2006	600.0	262690	5323	20.0	yes	no	yes	no	yes	
52132.712nc	130.775	ENDF71x	ENDF/B-VII.1	2006	900.0	261642	5192	20.0	yes	no	yes	no	yes	
52132.713nc	130.775	ENDF71x	ENDF/B-VII.1	2006	1200.0	261011	5113	20.0	yes	no	yes	no	yes	
52132.714nc	130.775	ENDF71x	ENDF/B-VII.1	2006	2500.0	259474	4921	20.0	yes	no	yes	no	yes	
52132.715nc	130.775	ENDF71x	ENDF/B-VII.1	2006	0.1	273114	6626	20.0	yes	no	yes	no	yes	
52132.716nc	130.775	ENDF71x	ENDF/B-VII.1	2006	250.0	264034	5491	20.0	yes	no	yes	no	yes	
Te-527														
52527.80c	125.815	ENDF71x	ENDF/B-VII.1	2006	293.6	82591	2481	20.0	no	no	no	no	yes	
52527.81c	125.815	ENDF71x	ENDF/B-VII.1	2006	600.0	82593	2481	20.0	no	no	no	no	yes	
52527.82c	125.815	ENDF71x	ENDF/B-VII.1	2006	900.0	82591	2481	20.0	no	no	no	no	yes	
52527.83c	125.815	ENDF71x	ENDF/B-VII.1	2006	1200.0	82593	2481	20.0	no	no	no	no	yes	
52527.84c	125.815	ENDF71x	ENDF/B-VII.1	2006	2500.0	82594	2481	20.0	no	no	no	no	yes	
52527.85c	125.815	ENDF71x	ENDF/B-VII.1	2006	0.1	82598	2482	20.0	no	no	no	no	yes	
52527.86c	125.815	ENDF71x	ENDF/B-VII.1	2006	250.0	82591	2481	20.0	no	no	no	no	yes	
52527.70c	125.815	endf70e	ENDF/B-VII.0	2006	293.6	82091	2510	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
52527.71c	125.815	endf70e	ENDF/B-VII.0	2006	600	82093	2510	20	no	no	no	no	yes	
52527.72c	125.815	endf70e	ENDF/B-VII.0	2006	900	82091	2510	20	no	no	no	no	yes	
52527.73c	125.815	endf70e	ENDF/B-VII.0	2006	1200	82093	2510	20	no	no	no	no	yes	
52527.74c	125.815	endf70e	ENDF/B-VII.0	2006	2500	82094	2510	20	no	no	no	no	yes	
Te-529														
52529.80c	127.8	ENDF71x	ENDF/B-VII.1	2006	293.6	95710	2457	20.0	no	no	no	no	yes	
52529.81c	127.8	ENDF71x	ENDF/B-VII.1	2006	600.0	95710	2457	20.0	no	no	no	no	yes	
52529.82c	127.8	ENDF71x	ENDF/B-VII.1	2006	900.0	95711	2457	20.0	no	no	no	no	yes	
52529.83c	127.8	ENDF71x	ENDF/B-VII.1	2006	1200.0	95710	2457	20.0	no	no	no	no	yes	
52529.84c	127.8	ENDF71x	ENDF/B-VII.1	2006	2500.0	95711	2457	20.0	no	no	no	no	yes	
52529.85c	127.8	ENDF71x	ENDF/B-VII.1	2006	0.1	95724	2459	20.0	no	no	no	no	yes	
52529.86c	127.8	ENDF71x	ENDF/B-VII.1	2006	250.0	95710	2457	20.0	no	no	no	no	yes	
52529.70c	127.8	endf70e	ENDF/B-VII.0	2006	293.6	95255	2491	20	no	no	no	no	yes	
52529.71c	127.8	endf70e	ENDF/B-VII.0	2006	600	95255	2491	20	no	no	no	no	yes	
52529.72c	127.8	endf70e	ENDF/B-VII.0	2006	900	95256	2491	20	no	no	no	no	yes	
52529.73c	127.8	endf70e	ENDF/B-VII.0	2006	1200	95255	2491	20	no	no	no	no	yes	
52529.74c	127.8	endf70e	ENDF/B-VII.0	2006	2500	95256	2491	20	no	no	no	no	yes	
Z = 53, iodine														
I-127														
53127.80c	125.8143	ENDF71x	ENDF/B-VII.1	2006	293.6	1304107	54444	30.0	yes	no	yes	no	no	
53127.81c	125.8143	ENDF71x	ENDF/B-VII.1	2006	600.0	1256815	52192	30.0	yes	no	yes	no	no	
53127.82c	125.8143	ENDF71x	ENDF/B-VII.1	2006	900.0	1226722	50759	30.0	yes	no	yes	no	no	
53127.83c	125.8143	ENDF71x	ENDF/B-VII.1	2006	1200.0	1200430	49507	30.0	yes	no	yes	no	no	
53127.84c	125.8143	ENDF71x	ENDF/B-VII.1	2006	2500.0	1145725	46902	30.0	yes	no	yes	no	no	
53127.85c	125.8143	ENDF71x	ENDF/B-VII.1	2006	0.1	1571101	67158	30.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
53127.86c	125.8143	ENDF71x	ENDF/B-VII.1	2006	250.0	1316224	55021	30.0	yes	no	yes	no	no	
53127.70c	125.8143	endf70e	ENDF/B-VII.0	2006	293.6	1304547	54463	30	yes	no	yes	no	no	
53127.71c	125.8143	endf70e	ENDF/B-VII.0	2006	600	1257255	52211	30	yes	no	yes	no	no	
53127.72c	125.8143	endf70e	ENDF/B-VII.0	2006	900	1227162	50778	30	yes	no	yes	no	no	
53127.73c	125.8143	endf70e	ENDF/B-VII.0	2006	1200	1200870	49526	30	yes	no	yes	no	no	
53127.74c	125.8143	endf70e	ENDF/B-VII.0	2006	2500	1146165	46921	30	yes	no	yes	no	no	
53127.66c	125.8143	endf66b	ENDF/B-VI.2	1991	293.6	373991	11519	30	yes	no	yes	no	no	
53127.60c	125.8143	endf60	LANL/T	1991	293.6	399760	7888	30	yes	no	no	no	no	13
53127.55c	125.814 9	misc5xs	LANL/T	1982	293.6	59725	9423	20	no	no	no	no	no	7
53127.42c	125.8143	endl92	LLNL	<1992	300	76321	10	30	yes	no	no	no	no	
53127.710nc	125.8143	ENDF71x	ENDF/B-VII.1	2006	293.6	1304107	54444	30.0	yes	no	yes	no	no	
53127.711nc	125.8143	ENDF71x	ENDF/B-VII.1	2006	600.0	1256815	52192	30.0	yes	no	yes	no	no	
53127.712nc	125.8143	ENDF71x	ENDF/B-VII.1	2006	900.0	1226722	50759	30.0	yes	no	yes	no	no	
53127.713nc	125.8143	ENDF71x	ENDF/B-VII.1	2006	1200.0	1200430	49507	30.0	yes	no	yes	no	no	
53127.714nc	125.8143	ENDF71x	ENDF/B-VII.1	2006	2500.0	1145725	46902	30.0	yes	no	yes	no	no	
53127.715nc	125.8143	ENDF71x	ENDF/B-VII.1	2006	0.1	1571101	67158	30.0	yes	no	yes	no	no	
53127.716nc	125.8143	ENDF71x	ENDF/B-VII.1	2006	250.0	1316224	55021	30.0	yes	no	yes	no	no	
I-129														
53129.80c	127.798	ENDF71x	ENDF/B-VII.1	2006	293.6	221102	22186	20.0	no	no	no	no	yes	
53129.81c	127.798	ENDF71x	ENDF/B-VII.1	2006	600.0	210411	20659	20.0	no	no	no	no	yes	
53129.82c	127.798	ENDF71x	ENDF/B-VII.1	2006	900.0	204349	19793	20.0	no	no	no	no	yes	
53129.83c	127.798	ENDF71x	ENDF/B-VII.1	2006	1200.0	199505	19101	20.0	no	no	no	no	yes	
53129.84c	127.798	ENDF71x	ENDF/B-VII.1	2006	2500.0	186596	17257	20.0	no	no	no	no	yes	
53129.85c	127.798	ENDF71x	ENDF/B-VII.1	2006	0.1	291827	32290	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
53129.86c	127.798	ENDF71x	ENDF/B-VII.1	2006	250.0	223808	22573	20.0	no	no	no	no	yes	
53129.70c	127.798	endf70e	ENDF/B-VII.0	2006	293.6	220300	22221	20	no	no	no	no	yes	
53129.71c	127.798	endf70e	ENDF/B-VII.0	2006	600	209609	20694	20	no	no	no	no	yes	
53129.72c	127.798	endf70e	ENDF/B-VII.0	2006	900	203547	19828	20	no	no	no	no	yes	
53129.73c	127.798	endf70e	ENDF/B-VII.0	2006	1200	198703	19136	20	no	no	no	no	yes	
53129.74c	127.798	endf70e	ENDF/B-VII.0	2006	2500	185794	17292	20	no	no	no	no	yes	
53129.60c	127.798	endf60	ENDF/B-VI.0	1980	293.6	8792	1237	20	no	no	no	no	no	
53129.710nc	127.798	ENDF71x	ENDF/B-VII.1	2006	293.6	221102	22186	20.0	no	no	no	no	yes	
53129.711nc	127.798	ENDF71x	ENDF/B-VII.1	2006	600.0	210411	20659	20.0	no	no	no	no	yes	
53129.712nc	127.798	ENDF71x	ENDF/B-VII.1	2006	900.0	204349	19793	20.0	no	no	no	no	yes	
53129.713nc	127.798	ENDF71x	ENDF/B-VII.1	2006	1200.0	199505	19101	20.0	no	no	no	no	yes	
53129.714nc	127.798	ENDF71x	ENDF/B-VII.1	2006	2500.0	186596	17257	20.0	no	no	no	no	yes	
53129.715nc	127.798	ENDF71x	ENDF/B-VII.1	2006	0.1	291827	32290	20.0	no	no	no	no	yes	
53129.716nc	127.798	ENDF71x	ENDF/B-VII.1	2006	250.0	223808	22573	20.0	no	no	no	no	yes	
I-130														
53130.80c	128.791	ENDF71x	ENDF/B-VII.1	2006	293.6	351787	14852	20.0	yes	no	yes	no	yes	
53130.81c	128.791	ENDF71x	ENDF/B-VII.1	2006	600.0	350907	14742	20.0	yes	no	yes	no	yes	
53130.82c	128.791	ENDF71x	ENDF/B-VII.1	2006	900.0	350219	14656	20.0	yes	no	yes	no	yes	
53130.83c	128.791	ENDF71x	ENDF/B-VII.1	2006	1200.0	349843	14609	20.0	yes	no	yes	no	yes	
53130.84c	128.791	ENDF71x	ENDF/B-VII.1	2006	2500.0	349171	14525	20.0	yes	no	yes	no	yes	
53130.85c	128.791	ENDF71x	ENDF/B-VII.1	2006	0.1	353939	15121	20.0	yes	no	yes	no	yes	
53130.86c	128.791	ENDF71x	ENDF/B-VII.1	2006	250.0	351891	14865	20.0	yes	no	yes	no	yes	
53130.70c	128.791	endf70e	ENDF/B-VII.0	2006	293.6	353051	14974	20	yes	no	yes	no	yes	
53130.71c	128.791	endf70e	ENDF/B-VII.0	2006	600	352171	14864	20	yes	no	yes	no	yes	
53130.72c	128.791	endf70e	ENDF/B-VII.0	2006	900	351483	14778	20	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
53130.73c	128.791	endf70e	ENDF/B-VII.0	2006	1200	351107	14731	20	yes	no	yes	no	yes	
53130.74c	128.791	endf70e	ENDF/B-VII.0	2006	2500	350435	14647	20	yes	no	yes	no	yes	
53130.710nc	128.791	ENDF71x	ENDF/B-VII.1	2006	293.6	351787	14852	20.0	yes	no	yes	no	yes	
53130.711nc	128.791	ENDF71x	ENDF/B-VII.1	2006	600.0	350907	14742	20.0	yes	no	yes	no	yes	
53130.712nc	128.791	ENDF71x	ENDF/B-VII.1	2006	900.0	350219	14656	20.0	yes	no	yes	no	yes	
53130.713nc	128.791	ENDF71x	ENDF/B-VII.1	2006	1200.0	349843	14609	20.0	yes	no	yes	no	yes	
53130.714nc	128.791	ENDF71x	ENDF/B-VII.1	2006	2500.0	349171	14525	20.0	yes	no	yes	no	yes	
53130.715nc	128.791	ENDF71x	ENDF/B-VII.1	2006	0.1	353939	15121	20.0	yes	no	yes	no	yes	
53130.716nc	128.791	ENDF71x	ENDF/B-VII.1	2006	250.0	351891	14865	20.0	yes	no	yes	no	yes	
I-131														
53131.80c	129.781	ENDF71x	ENDF/B-VII.1	2006	293.6	82380	2579	20.0	no	no	no	no	yes	
53131.81c	129.781	ENDF71x	ENDF/B-VII.1	2006	600.0	82331	2572	20.0	no	no	no	no	yes	
53131.82c	129.781	ENDF71x	ENDF/B-VII.1	2006	900.0	82373	2578	20.0	no	no	no	no	yes	
53131.83c	129.781	ENDF71x	ENDF/B-VII.1	2006	1200.0	82366	2577	20.0	no	no	no	no	yes	
53131.84c	129.781	ENDF71x	ENDF/B-VII.1	2006	2500.0	82325	2571	20.0	no	no	no	no	yes	
53131.85c	129.781	ENDF71x	ENDF/B-VII.1	2006	0.1	82330	2572	20.0	no	no	no	no	yes	
53131.86c	129.781	ENDF71x	ENDF/B-VII.1	2006	250.0	82386	2580	20.0	no	no	no	no	yes	
53131.70c	129.781	endf70e	ENDF/B-VII.0	2006	293.6	78021	2605	20	no	no	no	no	no	
53131.71c	129.781	endf70e	ENDF/B-VII.0	2006	600	77972	2598	20	no	no	no	no	no	
53131.72c	129.781	endf70e	ENDF/B-VII.0	2006	900	78014	2604	20	no	no	no	no	no	
53131.73c	129.781	endf70e	ENDF/B-VII.0	2006	1200	78007	2603	20	no	no	no	no	no	
53131.74c	129.781	endf70e	ENDF/B-VII.0	2006	2500	77966	2597	20	no	no	no	no	no	
53131.710nc	129.781	ENDF71x	ENDF/B-VII.1	2006	293.6	82380	2579	20.0	no	no	no	no	yes	
53131.711nc	129.781	ENDF71x	ENDF/B-VII.1	2006	600.0	82331	2572	20.0	no	no	no	no	yes	
53131.712nc	129.781	ENDF71x	ENDF/B-VII.1	2006	900.0	82373	2578	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
53131.713nc	129.781	ENDF71x	ENDF/B-VII.1	2006	1200.0	82366	2577	20.0	no	no	no	no	yes	
53131.714nc	129.781	ENDF71x	ENDF/B-VII.1	2006	2500.0	82325	2571	20.0	no	no	no	no	yes	
53131.715nc	129.781	ENDF71x	ENDF/B-VII.1	2006	0.1	82330	2572	20.0	no	no	no	no	yes	
53131.716nc	129.781	ENDF71x	ENDF/B-VII.1	2006	250.0	82386	2580	20.0	no	no	no	no	yes	
I-135														
53135.80c	133.75	ENDF71x	ENDF/B-VII.1	2005	293.6	34224	668	20.0	no	no	no	no	no	
53135.81c	133.75	ENDF71x	ENDF/B-VII.1	2005	600.0	34224	668	20.0	no	no	no	no	no	
53135.82c	133.75	ENDF71x	ENDF/B-VII.1	2005	900.0	34222	668	20.0	no	no	no	no	no	
53135.83c	133.75	ENDF71x	ENDF/B-VII.1	2005	1200.0	34223	668	20.0	no	no	no	no	no	
53135.84c	133.75	ENDF71x	ENDF/B-VII.1	2005	2500.0	34223	668	20.0	no	no	no	no	no	
53135.85c	133.75	ENDF71x	ENDF/B-VII.1	2005	0.1	34224	668	20.0	no	no	no	no	no	
53135.86c	133.75	ENDF71x	ENDF/B-VII.1	2005	250.0	34222	668	20.0	no	no	no	no	no	
53135.70c	133.75	endf70e	ENDF/B-VII.0	2005	293.6	34224	668	20	no	no	no	no	no	
53135.71c	133.75	endf70e	ENDF/B-VII.0	2005	600	34224	668	20	no	no	no	no	no	
53135.72c	133.75	endf70e	ENDF/B-VII.0	2005	900	34222	668	20	no	no	no	no	no	
53135.73c	133.75	endf70e	ENDF/B-VII.0	2005	1200	34223	668	20	no	no	no	no	no	
53135.74c	133.75	endf70e	ENDF/B-VII.0	2005	2500	34223	668	20	no	no	no	no	no	
53135.50c	133.751	kidman	ENDF/B-V.0	1974	293.6	1232	194	20	no	no	no	no	no	
53135.710nc	133.75	ENDF71x	ENDF/B-VII.1	2005	293.6	34224	668	20.0	no	no	no	no	no	
53135.711nc	133.75	ENDF71x	ENDF/B-VII.1	2005	600.0	34224	668	20.0	no	no	no	no	no	
53135.712nc	133.75	ENDF71x	ENDF/B-VII.1	2005	900.0	34222	668	20.0	no	no	no	no	no	
53135.713nc	133.75	ENDF71x	ENDF/B-VII.1	2005	1200.0	34223	668	20.0	no	no	no	no	no	
53135.714nc	133.75	ENDF71x	ENDF/B-VII.1	2005	2500.0	34223	668	20.0	no	no	no	no	no	
53135.715nc	133.75	ENDF71x	ENDF/B-VII.1	2005	0.1	34224	668	20.0	no	no	no	no	no	
53135.716nc	133.75	ENDF71x	ENDF/B-VII.1	2005	250.0	34222	668	20.0	no	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
Z = 54, xenon
Xe-0														
54000.42c	130.1721	endl92	LLNL	<1992	300	43411	5173	30	yes	no	no	no	no	
Xe-123														
54123.80c	121.8526	ENDF71x	ENDF/B-VII.1	2011	293.6	843794	576	20.0	yes	no	yes	no	no	
54123.81c	121.8526	ENDF71x	ENDF/B-VII.1	2011	600.0	844210	602	20.0	yes	no	yes	no	no	
54123.82c	121.8526	ENDF71x	ENDF/B-VII.1	2011	900.0	844370	612	20.0	yes	no	yes	no	no	
54123.83c	121.8526	ENDF71x	ENDF/B-VII.1	2011	1200.0	844386	613	20.0	yes	no	yes	no	no	
54123.84c	121.8526	ENDF71x	ENDF/B-VII.1	2011	2500.0	844706	633	20.0	yes	no	yes	no	no	
54123.85c	121.8526	ENDF71x	ENDF/B-VII.1	2011	0.1	841010	402	20.0	yes	no	yes	no	no	
54123.86c	121.8526	ENDF71x	ENDF/B-VII.1	2011	250.0	843698	570	20.0	yes	no	yes	no	no	
54123.70c	121.85	endf70f	ENDF/B-VII.0	2000	293.6	65739	589	20	no	no	no	no	no	
54123.71c	121.85	endf70f	ENDF/B-VII.0	2000	600	65741	589	20	no	no	no	no	no	
54123.72c	121.85	endf70f	ENDF/B-VII.0	2000	900	65739	589	20	no	no	no	no	no	
54123.73c	121.85	endf70f	ENDF/B-VII.0	2000	1200	65739	589	20	no	no	no	no	no	
54123.74c	121.85	endf70f	ENDF/B-VII.0	2000	2500	65740	589	20	no	no	no	no	no	
54123.710nc	121.8526	ENDF71x	ENDF/B-VII.1	2011	293.6	843794	576	20.0	yes	no	yes	no	no	
54123.711nc	121.8526	ENDF71x	ENDF/B-VII.1	2011	600.0	844210	602	20.0	yes	no	yes	no	no	
54123.712nc	121.8526	ENDF71x	ENDF/B-VII.1	2011	900.0	844370	612	20.0	yes	no	yes	no	no	
54123.713nc	121.8526	ENDF71x	ENDF/B-VII.1	2011	1200.0	844386	613	20.0	yes	no	yes	no	no	
54123.714nc	121.8526	ENDF71x	ENDF/B-VII.1	2011	2500.0	844706	633	20.0	yes	no	yes	no	no	
54123.715nc	121.8526	ENDF71x	ENDF/B-VII.1	2011	0.1	841010	402	20.0	yes	no	yes	no	no	
54123.716nc	121.8526	ENDF71x	ENDF/B-VII.1	2011	250.0	843698	570	20.0	yes	no	yes	no	no	
Xe-124														
54124.80c	122.8415	ENDF71x	ENDF/B-VII.1	2011	293.6	779734	2337	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
54124.81c	122.8415	ENDF71x	ENDF/B-VII.1	2011	600.0	779014	2292	20.0	yes	no	yes	no	yes	
54124.82c	122.8415	ENDF71x	ENDF/B-VII.1	2011	900.0	778694	2272	20.0	yes	no	yes	no	yes	
54124.83c	122.8415	ENDF71x	ENDF/B-VII.1	2011	1200.0	778070	2233	20.0	yes	no	yes	no	yes	
54124.84c	122.8415	ENDF71x	ENDF/B-VII.1	2011	2500.0	776342	2125	20.0	yes	no	yes	no	yes	
54124.85c	122.8415	ENDF71x	ENDF/B-VII.1	2011	0.1	781606	2454	20.0	yes	no	yes	no	yes	
54124.86c	122.8415	ENDF71x	ENDF/B-VII.1	2011	250.0	779782	2340	20.0	yes	no	yes	no	yes	
54124.70c	122.84	endf70f	ENDF/B-VII.0	2006	293.6	67839	2371	20	no	no	no	no	yes	
54124.71c	122.84	endf70f	ENDF/B-VII.0	2006	600	67636	2342	20	no	no	no	no	yes	
54124.72c	122.84	endf70f	ENDF/B-VII.0	2006	900	67418	2311	20	no	no	no	no	yes	
54124.73c	122.84	endf70f	ENDF/B-VII.0	2006	1200	66986	2249	20	no	no	no	no	yes	
54124.74c	122.84	endf70f	ENDF/B-VII.0	2006	2500	66264	2146	20	no	no	no	no	yes	
54124.66c	122.842	endf66b	ENDF/B-VI.0	1978	293.6	21034	1979	20	no	no	no	no	no	
54124.710nc	122.8415	ENDF71x	ENDF/B-VII.1	2011	293.6	779734	2337	20.0	yes	no	yes	no	yes	
54124.711nc	122.8415	ENDF71x	ENDF/B-VII.1	2011	600.0	779014	2292	20.0	yes	no	yes	no	yes	
54124.712nc	122.8415	ENDF71x	ENDF/B-VII.1	2011	900.0	778694	2272	20.0	yes	no	yes	no	yes	
54124.713nc	122.8415	ENDF71x	ENDF/B-VII.1	2011	1200.0	778070	2233	20.0	yes	no	yes	no	yes	
54124.714nc	122.8415	ENDF71x	ENDF/B-VII.1	2011	2500.0	776342	2125	20.0	yes	no	yes	no	yes	
54124.715nc	122.8415	ENDF71x	ENDF/B-VII.1	2011	0.1	781606	2454	20.0	yes	no	yes	no	yes	
54124.716nc	122.8415	ENDF71x	ENDF/B-VII.1	2011	250.0	779782	2340	20.0	yes	no	yes	no	yes	
Xe-126														
54126.80c	124.822	ENDF71x	ENDF/B-VII.1	2006	293.6	87781	3945	20.0	no	no	no	no	yes	
54126.81c	124.822	ENDF71x	ENDF/B-VII.1	2006	600.0	87243	3868	20.0	no	no	no	no	yes	
54126.82c	124.822	ENDF71x	ENDF/B-VII.1	2006	900.0	86999	3833	20.0	no	no	no	no	yes	
54126.83c	124.822	ENDF71x	ENDF/B-VII.1	2006	1200.0	86851	3812	20.0	no	no	no	no	yes	
54126.84c	124.822	ENDF71x	ENDF/B-VII.1	2006	2500.0	86375	3744	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
54126.85c	124.822	ENDF71x	ENDF/B-VII.1	2006	0.1	89959	4256	20.0	no	no	no	no	yes	
54126.86c	124.822	ENDF71x	ENDF/B-VII.1	2006	250.0	87971	3972	20.0	no	no	no	no	yes	
54126.70c	124.822	endf70f	ENDF/B-VII.0	2006	293.6	88042	4002	20	no	no	no	no	yes	
54126.71c	124.822	endf70f	ENDF/B-VII.0	2006	600	87504	3925	20	no	no	no	no	yes	
54126.72c	124.822	endf70f	ENDF/B-VII.0	2006	900	87260	3890	20	no	no	no	no	yes	
54126.73c	124.822	endf70f	ENDF/B-VII.0	2006	1200	87112	3869	20	no	no	no	no	yes	
54126.74c	124.822	endf70f	ENDF/B-VII.0	2006	2500	86636	3801	20	no	no	no	no	yes	
54126.66c	124.823	endf66b	ENDF/B-VI.0	1978	293.6	21388	2133	20	no	no	no	no	no	
54126.710nc	124.822	ENDF71x	ENDF/B-VII.1	2006	293.6	87781	3945	20.0	no	no	no	no	yes	
54126.711nc	124.822	ENDF71x	ENDF/B-VII.1	2006	600.0	87243	3868	20.0	no	no	no	no	yes	
54126.712nc	124.822	ENDF71x	ENDF/B-VII.1	2006	900.0	86999	3833	20.0	no	no	no	no	yes	
54126.713nc	124.822	ENDF71x	ENDF/B-VII.1	2006	1200.0	86851	3812	20.0	no	no	no	no	yes	
54126.714nc	124.822	ENDF71x	ENDF/B-VII.1	2006	2500.0	86375	3744	20.0	no	no	no	no	yes	
54126.715nc	124.822	ENDF71x	ENDF/B-VII.1	2006	0.1	89959	4256	20.0	no	no	no	no	yes	
54126.716nc	124.822	ENDF71x	ENDF/B-VII.1	2006	250.0	87971	3972	20.0	no	no	no	no	yes	
Xe-128														
54128.80c	126.804	ENDF71x	ENDF/B-VII.1	2006	293.6	117428	6865	20.0	no	no	no	no	yes	
54128.81c	126.804	ENDF71x	ENDF/B-VII.1	2006	600.0	116183	6687	20.0	no	no	no	no	yes	
54128.82c	126.804	ENDF71x	ENDF/B-VII.1	2006	900.0	114930	6508	20.0	no	no	no	no	yes	
54128.83c	126.804	ENDF71x	ENDF/B-VII.1	2006	1200.0	114104	6390	20.0	no	no	no	no	yes	
54128.84c	126.804	ENDF71x	ENDF/B-VII.1	2006	2500.0	112299	6132	20.0	no	no	no	no	yes	
54128.85c	126.804	ENDF71x	ENDF/B-VII.1	2006	0.1	126627	8179	20.0	no	no	no	no	yes	
54128.86c	126.804	ENDF71x	ENDF/B-VII.1	2006	250.0	117855	6926	20.0	no	no	no	no	yes	
54128.70c	126.804	endf70f	ENDF/B-VII.0	2006	293.6	117849	6920	20	no	no	no	no	yes	
54128.71c	126.804	endf70f	ENDF/B-VII.0	2006	600	116604	6742	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
54128.72c	126.804	endf70f	ENDF/B-VII.0	2006	900	115351	6563	20	no	no	no	no	yes	
54128.73c	126.804	endf70f	ENDF/B-VII.0	2006	1200	114525	6445	20	no	no	no	no	yes	
54128.74c	126.804	endf70f	ENDF/B-VII.0	2006	2500	112720	6187	20	no	no	no	no	yes	
54128.66c	126.805	endf66b	ENDF/B-VI.0	1978	293.6	32739	3817	20	no	no	no	no	no	
54128.710nc	126.804	ENDF71x	ENDF/B-VII.1	2006	293.6	117428	6865	20.0	no	no	no	no	yes	
54128.711nc	126.804	ENDF71x	ENDF/B-VII.1	2006	600.0	116183	6687	20.0	no	no	no	no	yes	
54128.712nc	126.804	ENDF71x	ENDF/B-VII.1	2006	900.0	114930	6508	20.0	no	no	no	no	yes	
54128.713nc	126.804	ENDF71x	ENDF/B-VII.1	2006	1200.0	114104	6390	20.0	no	no	no	no	yes	
54128.714nc	126.804	ENDF71x	ENDF/B-VII.1	2006	2500.0	112299	6132	20.0	no	no	no	no	yes	
54128.715nc	126.804	ENDF71x	ENDF/B-VII.1	2006	0.1	126627	8179	20.0	no	no	no	no	yes	
54128.716nc	126.804	ENDF71x	ENDF/B-VII.1	2006	250.0	117855	6926	20.0	no	no	no	no	yes	
Xe-129														
54129.80c	127.798	ENDF71x	ENDF/B-VII.1	2006	293.6	202072	19139	20.0	no	no	no	no	yes	
54129.81c	127.798	ENDF71x	ENDF/B-VII.1	2006	600.0	194444	18049	20.0	no	no	no	no	yes	
54129.82c	127.798	ENDF71x	ENDF/B-VII.1	2006	900.0	190566	17495	20.0	no	no	no	no	yes	
54129.83c	127.798	ENDF71x	ENDF/B-VII.1	2006	1200.0	187030	16990	20.0	no	no	no	no	yes	
54129.84c	127.798	ENDF71x	ENDF/B-VII.1	2006	2500.0	179057	15851	20.0	no	no	no	no	yes	
54129.85c	127.798	ENDF71x	ENDF/B-VII.1	2006	0.1	231955	23408	20.0	no	no	no	no	yes	
54129.86c	127.798	ENDF71x	ENDF/B-VII.1	2006	250.0	203633	19362	20.0	no	no	no	no	yes	
54129.70c	127.798	endf70f	ENDF/B-VII.0	2006	293.6	202319	19174	20	no	no	no	no	yes	
54129.71c	127.798	endf70f	ENDF/B-VII.0	2006	600	194691	18084	20	no	no	no	no	yes	
54129.72c	127.798	endf70f	ENDF/B-VII.0	2006	900	190813	17530	20	no	no	no	no	yes	
54129.73c	127.798	endf70f	ENDF/B-VII.0	2006	1200	187277	17025	20	no	no	no	no	yes	
54129.74c	127.798	endf70f	ENDF/B-VII.0	2006	2500	179304	15886	20	no	no	no	no	yes	
54129.66c	127.797	endf66b	ENDF/B-VI.0	1978	293.6	118721	15971	20	no	no	no	no	no	

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
54129.710nc	127.798	ENDF71x	ENDF/B-VII.1	2006	293.6	202072	19139	20.0	no	no	no	no	yes	
54129.711nc	127.798	ENDF71x	ENDF/B-VII.1	2006	600.0	194444	18049	20.0	no	no	no	no	yes	
54129.712nc	127.798	ENDF71x	ENDF/B-VII.1	2006	900.0	190566	17495	20.0	no	no	no	no	yes	
54129.713nc	127.798	ENDF71x	ENDF/B-VII.1	2006	1200.0	187030	16990	20.0	no	no	no	no	yes	
54129.714nc	127.798	ENDF71x	ENDF/B-VII.1	2006	2500.0	179057	15851	20.0	no	no	no	no	yes	
54129.715nc	127.798	ENDF71x	ENDF/B-VII.1	2006	0.1	231955	23408	20.0	no	no	no	no	yes	
54129.716nc	127.798	ENDF71x	ENDF/B-VII.1	2006	250.0	203633	19362	20.0	no	no	no	no	yes	
Xe-130														
54130.80c	128.788	ENDF71x	ENDF/B-VII.1	2006	293.6	48406	5993	20.0	no	no	no	no	no	
54130.81c	128.788	ENDF71x	ENDF/B-VII.1	2006	600.0	46915	5780	20.0	no	no	no	no	no	
54130.82c	128.788	ENDF71x	ENDF/B-VII.1	2006	900.0	45767	5616	20.0	no	no	no	no	no	
54130.83c	128.788	ENDF71x	ENDF/B-VII.1	2006	1200.0	44816	5480	20.0	no	no	no	no	no	
54130.84c	128.788	ENDF71x	ENDF/B-VII.1	2006	2500.0	42946	5213	20.0	no	no	no	no	no	
54130.85c	128.788	ENDF71x	ENDF/B-VII.1	2006	0.1	59649	7599	20.0	no	no	no	no	no	
54130.86c	128.788	ENDF71x	ENDF/B-VII.1	2006	250.0	48856	6057	20.0	no	no	no	no	no	
54130.70c	128.788	endf70f	ENDF/B-VII.0	2006	293.6	48675	6031	20	no	no	no	no	no	
54130.71c	128.788	endf70f	ENDF/B-VII.0	2006	600	47184	5818	20	no	no	no	no	no	
54130.72c	128.788	endf70f	ENDF/B-VII.0	2006	900	46036	5654	20	no	no	no	no	no	
54130.73c	128.788	endf70f	ENDF/B-VII.0	2006	1200	45085	5518	20	no	no	no	no	no	
54130.74c	128.788	endf70f	ENDF/B-VII.0	2006	2500	43215	5251	20	no	no	no	no	no	
54130.66c	128.788	endf66b	ENDF/B-VI.0	1978	293.6	34346	3984	20	no	no	no	no	no	
54130.710nc	128.788	ENDF71x	ENDF/B-VII.1	2006	293.6	48406	5993	20.0	no	no	no	no	no	
54130.711nc	128.788	ENDF71x	ENDF/B-VII.1	2006	600.0	46915	5780	20.0	no	no	no	no	no	
54130.712nc	128.788	ENDF71x	ENDF/B-VII.1	2006	900.0	45767	5616	20.0	no	no	no	no	no	
54130.713nc	128.788	ENDF71x	ENDF/B-VII.1	2006	1200.0	44816	5480	20.0	no	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
54130.714nc	128.788	ENDF71x	ENDF/B-VII.1	2006	2500.0	42946	5213	20.0	no	no	no	no	no	
54130.715nc	128.788	ENDF71x	ENDF/B-VII.1	2006	0.1	59649	7599	20.0	no	no	no	no	no	
54130.716nc	128.788	ENDF71x	ENDF/B-VII.1	2006	250.0	48856	6057	20.0	no	no	no	no	no	
Xe-131														
54131.80c	129.781	ENDF71x	ENDF/B-VII.1	2006	293.6	306005	12577	20.0	yes	no	yes	no	yes	
54131.81c	129.781	ENDF71x	ENDF/B-VII.1	2006	600.0	299916	11816	20.0	yes	no	yes	no	yes	
54131.82c	129.781	ENDF71x	ENDF/B-VII.1	2006	900.0	295893	11313	20.0	yes	no	yes	no	yes	
54131.83c	129.781	ENDF71x	ENDF/B-VII.1	2006	1200.0	294373	11123	20.0	yes	no	yes	no	yes	
54131.84c	129.781	ENDF71x	ENDF/B-VII.1	2006	2500.0	287756	10296	20.0	yes	no	yes	no	yes	
54131.85c	129.781	ENDF71x	ENDF/B-VII.1	2006	0.1	329612	15528	20.0	yes	no	yes	no	yes	
54131.86c	129.781	ENDF71x	ENDF/B-VII.1	2006	250.0	307156	12721	20.0	yes	no	yes	no	yes	
54131.70c	129.781	endf70f	ENDF/B-VII.0	2006	293.6	307168	12676	20	yes	no	yes	no	yes	
54131.71c	129.781	endf70f	ENDF/B-VII.0	2006	600	301079	11915	20	yes	no	yes	no	yes	
54131.72c	129.781	endf70f	ENDF/B-VII.0	2006	900	297056	11412	20	yes	no	yes	no	yes	
54131.73c	129.781	endf70f	ENDF/B-VII.0	2006	1200	295536	11222	20	yes	no	yes	no	yes	
54131.74c	129.781	endf70f	ENDF/B-VII.0	2006	2500	288919	10395	20	yes	no	yes	no	yes	
54131.66c	129.781	endf66b	ENDF/B-VI.0	1978	293.6	79510	10434	20	no	no	no	no	no	
54131.50c	129.781	kidman	ENDF/B-V.0	1978	293.6	22572	3376	20	no	no	no	no	no	
54131.710nc	129.781	ENDF71x	ENDF/B-VII.1	2006	293.6	306005	12577	20.0	yes	no	yes	no	yes	
54131.711nc	129.781	ENDF71x	ENDF/B-VII.1	2006	600.0	299916	11816	20.0	yes	no	yes	no	yes	
54131.712nc	129.781	ENDF71x	ENDF/B-VII.1	2006	900.0	295893	11313	20.0	yes	no	yes	no	yes	
54131.713nc	129.781	ENDF71x	ENDF/B-VII.1	2006	1200.0	294373	11123	20.0	yes	no	yes	no	yes	
54131.714nc	129.781	ENDF71x	ENDF/B-VII.1	2006	2500.0	287756	10296	20.0	yes	no	yes	no	yes	
54131.715nc	129.781	ENDF71x	ENDF/B-VII.1	2006	0.1	329612	15528	20.0	yes	no	yes	no	yes	
54131.716nc	129.781	ENDF71x	ENDF/B-VII.1	2006	250.0	307156	12721	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
Xe-132														
54132.80c	130.77	ENDF71x	ENDF/B-VII.1	2006	293.6	70375	2683	20.0	no	no	no	no	yes	
54132.81c	130.77	ENDF71x	ENDF/B-VII.1	2006	600.0	69863	2610	20.0	no	no	no	no	yes	
54132.82c	130.77	ENDF71x	ENDF/B-VII.1	2006	900.0	69549	2565	20.0	no	no	no	no	yes	
54132.83c	130.77	ENDF71x	ENDF/B-VII.1	2006	1200.0	69303	2530	20.0	no	no	no	no	yes	
54132.84c	130.77	ENDF71x	ENDF/B-VII.1	2006	2500.0	68820	2461	20.0	no	no	no	no	yes	
54132.85c	130.77	ENDF71x	ENDF/B-VII.1	2006	0.1	74351	3251	20.0	no	no	no	no	yes	
54132.86c	130.77	ENDF71x	ENDF/B-VII.1	2006	250.0	70570	2711	20.0	no	no	no	no	yes	
54132.70c	130.77	endf70f	ENDF/B-VII.0	2006	293.6	70798	2747	20	no	no	no	no	yes	
54132.71c	130.77	endf70f	ENDF/B-VII.0	2006	600	70286	2674	20	no	no	no	no	yes	
54132.72c	130.77	endf70f	ENDF/B-VII.0	2006	900	69972	2629	20	no	no	no	no	yes	
54132.73c	130.77	endf70f	ENDF/B-VII.0	2006	1200	69726	2594	20	no	no	no	no	yes	
54132.74c	130.77	endf70f	ENDF/B-VII.0	2006	2500	69243	2525	20	no	no	no	no	yes	
54132.66c	130.771	endf66b	ENDF/B-VI.0	1978	293.6	17947	1709	20	no	no	no	no	no	
54132.710nc	130.77	ENDF71x	ENDF/B-VII.1	2006	293.6	70375	2683	20.0	no	no	no	no	yes	
54132.711nc	130.77	ENDF71x	ENDF/B-VII.1	2006	600.0	69863	2610	20.0	no	no	no	no	yes	
54132.712nc	130.77	ENDF71x	ENDF/B-VII.1	2006	900.0	69549	2565	20.0	no	no	no	no	yes	
54132.713nc	130.77	ENDF71x	ENDF/B-VII.1	2006	1200.0	69303	2530	20.0	no	no	no	no	yes	
54132.714nc	130.77	ENDF71x	ENDF/B-VII.1	2006	2500.0	68820	2461	20.0	no	no	no	no	yes	
54132.715nc	130.77	ENDF71x	ENDF/B-VII.1	2006	0.1	74351	3251	20.0	no	no	no	no	yes	
54132.716nc	130.77	ENDF71x	ENDF/B-VII.1	2006	250.0	70570	2711	20.0	no	no	no	no	yes	
Xe-133														
54133.80c	131.764	ENDF71x	ENDF/B-VII.1	2006	293.6	75091	2407	20.0	no	no	no	no	yes	
54133.81c	131.764	ENDF71x	ENDF/B-VII.1	2006	600.0	75085	2406	20.0	no	no	no	no	yes	
54133.82c	131.764	ENDF71x	ENDF/B-VII.1	2006	900.0	75119	2411	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
54133.83c	131.764	ENDF71x	ENDF/B-VII.1	2006	1200.0	75084	2406	20.0	no	no	no	no	yes	
54133.84c	131.764	ENDF71x	ENDF/B-VII.1	2006	2500.0	75071	2404	20.0	no	no	no	no	yes	
54133.85c	131.764	ENDF71x	ENDF/B-VII.1	2006	0.1	75077	2405	20.0	no	no	no	no	yes	
54133.86c	131.764	ENDF71x	ENDF/B-VII.1	2006	250.0	75107	2409	20.0	no	no	no	no	yes	
54133.70c	131.764	endf70f	ENDF/B-VII.0	2006	293.6	74542	2428	20	no	no	no	no	yes	
54133.71c	131.764	endf70f	ENDF/B-VII.0	2006	600	74536	2427	20	no	no	no	no	yes	
54133.72c	131.764	endf70f	ENDF/B-VII.0	2006	900	74570	2432	20	no	no	no	no	yes	
54133.73c	131.764	endf70f	ENDF/B-VII.0	2006	1200	74535	2427	20	no	no	no	no	yes	
54133.74c	131.764	endf70f	ENDF/B-VII.0	2006	2500	74522	2425	20	no	no	no	no	yes	
54133.710nc	131.764	ENDF71x	ENDF/B-VII.1	2006	293.6	75091	2407	20.0	no	no	no	no	yes	
54133.711nc	131.764	ENDF71x	ENDF/B-VII.1	2006	600.0	75085	2406	20.0	no	no	no	no	yes	
54133.712nc	131.764	ENDF71x	ENDF/B-VII.1	2006	900.0	75119	2411	20.0	no	no	no	no	yes	
54133.713nc	131.764	ENDF71x	ENDF/B-VII.1	2006	1200.0	75084	2406	20.0	no	no	no	no	yes	
54133.714nc	131.764	ENDF71x	ENDF/B-VII.1	2006	2500.0	75071	2404	20.0	no	no	no	no	yes	
54133.715nc	131.764	ENDF71x	ENDF/B-VII.1	2006	0.1	75077	2405	20.0	no	no	no	no	yes	
54133.716nc	131.764	ENDF71x	ENDF/B-VII.1	2006	250.0	75107	2409	20.0	no	no	no	no	yes	
Xe-134														
54134.80c	132.76	ENDF71x	ENDF/B-VII.1	2006	293.6	57737	1972	20.0	no	no	no	no	yes	
54134.81c	132.76	ENDF71x	ENDF/B-VII.1	2006	600.0	57254	1903	20.0	no	no	no	no	yes	
54134.82c	132.76	ENDF71x	ENDF/B-VII.1	2006	900.0	57030	1871	20.0	no	no	no	no	yes	
54134.83c	132.76	ENDF71x	ENDF/B-VII.1	2006	1200.0	56945	1859	20.0	no	no	no	no	yes	
54134.84c	132.76	ENDF71x	ENDF/B-VII.1	2006	2500.0	56448	1788	20.0	no	no	no	no	yes	
54134.85c	132.76	ENDF71x	ENDF/B-VII.1	2006	0.1	61076	2449	20.0	no	no	no	no	yes	
54134.86c	132.76	ENDF71x	ENDF/B-VII.1	2006	250.0	57729	1971	20.0	no	no	no	no	yes	
54134.70c	132.76	endf70f	ENDF/B-VII.0	2006	293.6	58024	2034	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
54134.71c	132.76	endf70f	ENDF/B-VII.0	2006	600	57541	1965	20	no	no	no	no	yes	
54134.72c	132.76	endf70f	ENDF/B-VII.0	2006	900	57317	1933	20	no	no	no	no	yes	
54134.73c	132.76	endf70f	ENDF/B-VII.0	2006	1200	57232	1921	20	no	no	no	no	yes	
54134.74c	132.76	endf70f	ENDF/B-VII.0	2006	2500	56735	1850	20	no	no	no	no	yes	
54134.66c	132.755	endf66b	ENDF/B-VI.0	1978	293.6	15028	1349	20	no	no	no	no	no	
54134.42c	132.7551	endl92	LLNL	<1992	300	8033	192	30	yes	no	no	no	no	
54134.710nc	132.76	ENDF71x	ENDF/B-VII.1	2006	293.6	57737	1972	20.0	no	no	no	no	yes	
54134.711nc	132.76	ENDF71x	ENDF/B-VII.1	2006	600.0	57254	1903	20.0	no	no	no	no	yes	
54134.712nc	132.76	ENDF71x	ENDF/B-VII.1	2006	900.0	57030	1871	20.0	no	no	no	no	yes	
54134.713nc	132.76	ENDF71x	ENDF/B-VII.1	2006	1200.0	56945	1859	20.0	no	no	no	no	yes	
54134.714nc	132.76	ENDF71x	ENDF/B-VII.1	2006	2500.0	56448	1788	20.0	no	no	no	no	yes	
54134.715nc	132.76	ENDF71x	ENDF/B-VII.1	2006	0.1	61076	2449	20.0	no	no	no	no	yes	
54134.716nc	132.76	ENDF71x	ENDF/B-VII.1	2006	250.0	57729	1971	20.0	no	no	no	no	yes	
Xe-135														
54135.80c	133.748	ENDF71x	ENDF/B-VII.1	2006	293.6	77660	2665	20.0	no	no	no	no	yes	
54135.81c	133.748	ENDF71x	ENDF/B-VII.1	2006	600.0	77659	2665	20.0	no	no	no	no	yes	
54135.82c	133.748	ENDF71x	ENDF/B-VII.1	2006	900.0	77674	2667	20.0	no	no	no	no	yes	
54135.83c	133.748	ENDF71x	ENDF/B-VII.1	2006	1200.0	77673	2667	20.0	no	no	no	no	yes	
54135.84c	133.748	ENDF71x	ENDF/B-VII.1	2006	2500.0	77667	2666	20.0	no	no	no	no	yes	
54135.85c	133.748	ENDF71x	ENDF/B-VII.1	2006	0.1	77638	2662	20.0	no	no	no	no	yes	
54135.86c	133.748	ENDF71x	ENDF/B-VII.1	2006	250.0	77674	2667	20.0	no	no	no	no	yes	
54135.70c	133.748	endf70f	ENDF/B-VII.0	2006	293.6	75923	2709	20	no	no	no	no	yes	
54135.71c	133.748	endf70f	ENDF/B-VII.0	2006	600	75922	2709	20	no	no	no	no	yes	
54135.72c	133.748	endf70f	ENDF/B-VII.0	2006	900	75937	2711	20	no	no	no	no	yes	
54135.73c	133.748	endf70f	ENDF/B-VII.0	2006	1200	75936	2711	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
54135.74c	133.748	endf70f	ENDF/B-VII.0	2006	2500	75930	2710	20	no	no	no	no	yes	
54135.50c	133.748	endf5mt	ENDF/B-V	1975	293.6	5529	704	20	no	no	no	no	no	1
54135.53c	133.748	endf5mt	ENDF/B-V	1975	587.2	5541	706	20	no	no	no	no	no	1
54135.54c	133.748	endf5mt	ENDF/B-V	1975	880.8	5577	712	20	no	no	no	no	no	1
54135.710nc	133.748	ENDF71x	ENDF/B-VII.1	2006	293.6	77660	2665	20.0	no	no	no	no	yes	
54135.711nc	133.748	ENDF71x	ENDF/B-VII.1	2006	600.0	77659	2665	20.0	no	no	no	no	yes	
54135.712nc	133.748	ENDF71x	ENDF/B-VII.1	2006	900.0	77674	2667	20.0	no	no	no	no	yes	
54135.713nc	133.748	ENDF71x	ENDF/B-VII.1	2006	1200.0	77673	2667	20.0	no	no	no	no	yes	
54135.714nc	133.748	ENDF71x	ENDF/B-VII.1	2006	2500.0	77667	2666	20.0	no	no	no	no	yes	
54135.715nc	133.748	ENDF71x	ENDF/B-VII.1	2006	0.1	77638	2662	20.0	no	no	no	no	yes	
54135.716nc	133.748	ENDF71x	ENDF/B-VII.1	2006	250.0	77674	2667	20.0	no	no	no	no	yes	
Xe-136														
54136.80c	134.74	ENDF71x	ENDF/B-VII.1	2006	293.6	79429	4404	20.0	no	no	no	no	no	
54136.81c	134.74	ENDF71x	ENDF/B-VII.1	2006	600.0	78912	4330	20.0	no	no	no	no	no	
54136.82c	134.74	ENDF71x	ENDF/B-VII.1	2006	900.0	78731	4304	20.0	no	no	no	no	no	
54136.83c	134.74	ENDF71x	ENDF/B-VII.1	2006	1200.0	78541	4277	20.0	no	no	no	no	no	
54136.84c	134.74	ENDF71x	ENDF/B-VII.1	2006	2500.0	77532	4133	20.0	no	no	no	no	no	
54136.85c	134.74	ENDF71x	ENDF/B-VII.1	2006	0.1	81340	4677	20.0	no	no	no	no	no	
54136.86c	134.74	ENDF71x	ENDF/B-VII.1	2006	250.0	79521	4417	20.0	no	no	no	no	no	
54136.70c	134.74	endf70f	ENDF/B-VII.0	2006	293.6	79499	4414	20	no	no	no	no	no	
54136.71c	134.74	endf70f	ENDF/B-VII.0	2006	600	78982	4340	20	no	no	no	no	no	
54136.72c	134.74	endf70f	ENDF/B-VII.0	2006	900	78801	4314	20	no	no	no	no	no	
54136.73c	134.74	endf70f	ENDF/B-VII.0	2006	1200	78611	4287	20	no	no	no	no	no	
54136.74c	134.74	endf70f	ENDF/B-VII.0	2006	2500	77602	4143	20	no	no	no	no	no	
54136.66c	134.74	endf66b	ENDF/B-VI.0	1978	293.6	10700	764	20	no	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
54136.710nc	134.74	ENDF71x	ENDF/B-VII.1	2006	293.6	79429	4404	20.0	no	no	no	no	no	
54136.711nc	134.74	ENDF71x	ENDF/B-VII.1	2006	600.0	78912	4330	20.0	no	no	no	no	no	
54136.712nc	134.74	ENDF71x	ENDF/B-VII.1	2006	900.0	78731	4304	20.0	no	no	no	no	no	
54136.713nc	134.74	ENDF71x	ENDF/B-VII.1	2006	1200.0	78541	4277	20.0	no	no	no	no	no	
54136.714nc	134.74	ENDF71x	ENDF/B-VII.1	2006	2500.0	77532	4133	20.0	no	no	no	no	no	
54136.715nc	134.74	ENDF71x	ENDF/B-VII.1	2006	0.1	81340	4677	20.0	no	no	no	no	no	
54136.716nc	134.74	ENDF71x	ENDF/B-VII.1	2006	250.0	79521	4417	20.0	no	no	no	no	no	
				Z = 55, cesium										
Cs-133														
55133.80c	131.764	ENDF71x	ENDF/B-VII.1	2010	293.6	431757	31334	20.0	yes	no	yes	no	yes	
55133.81c	131.764	ENDF71x	ENDF/B-VII.1	2010	600.0	411245	28770	20.0	yes	no	yes	no	yes	
55133.82c	131.764	ENDF71x	ENDF/B-VII.1	2010	900.0	399397	27289	20.0	yes	no	yes	no	yes	
55133.83c	131.764	ENDF71x	ENDF/B-VII.1	2010	1200.0	390325	26155	20.0	yes	no	yes	no	yes	
55133.84c	131.764	ENDF71x	ENDF/B-VII.1	2010	2500.0	365101	23002	20.0	yes	no	yes	no	yes	
55133.85c	131.764	ENDF71x	ENDF/B-VII.1	2010	0.1	550069	46123	20.0	yes	no	yes	no	yes	
55133.86c	131.764	ENDF71x	ENDF/B-VII.1	2010	250.0	436317	31904	20.0	yes	no	yes	no	yes	
55133.70c	131.764	endf70f	ENDF/B-VII.0	2006	293.6	418447	29727	20	yes	no	yes	no	yes	
55133.71c	131.764	endf70f	ENDF/B-VII.0	2006	600	399239	27326	20	yes	no	yes	no	yes	
55133.72c	131.764	endf70f	ENDF/B-VII.0	2006	900	388679	26006	20	yes	no	yes	no	yes	
55133.73c	131.764	endf70f	ENDF/B-VII.0	2006	1200	380423	24974	20	yes	no	yes	no	yes	
55133.74c	131.764	endf70f	ENDF/B-VII.0	2006	2500	357559	22116	20	yes	no	yes	no	yes	
55133.66c	131.764	endf66b	ENDF/B-VI.0	1978	293.6	141927	19648	20	no	no	no	no	no	
55133.60c	131.764	endf60	ENDF/B-VI.0	1978	293.6	54723	8788	20	no	no	no	no	no	
55133.55c	131.764	misc5xs	LANL/T	1982	293.6	67893	11025	20	no	no	no	no	no	7
	9													

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
55133.50c	131.764	kidman	ENDF/B-V.0	1978	293.6	26713	4142	20	no	no	no	no	no	
55133.710nc	131.764	ENDF71x	ENDF/B-VII.1	2010	293.6	431757	31334	20.0	yes	no	yes	no	yes	
55133.711nc	131.764	ENDF71x	ENDF/B-VII.1	2010	600.0	411245	28770	20.0	yes	no	yes	no	yes	
55133.712nc	131.764	ENDF71x	ENDF/B-VII.1	2010	900.0	399397	27289	20.0	yes	no	yes	no	yes	
55133.713nc	131.764	ENDF71x	ENDF/B-VII.1	2010	1200.0	390325	26155	20.0	yes	no	yes	no	yes	
55133.714nc	131.764	ENDF71x	ENDF/B-VII.1	2010	2500.0	365101	23002	20.0	yes	no	yes	no	yes	
55133.715nc	131.764	ENDF71x	ENDF/B-VII.1	2010	0.1	550069	46123	20.0	yes	no	yes	no	yes	
55133.716nc	131.764	ENDF71x	ENDF/B-VII.1	2010	250.0	436317	31904	20.0	yes	no	yes	no	yes	
Cs-134														
55134.80c	132.757	ENDF71x	ENDF/B-VII.1	2006	293.6	137037	4720	20.0	no	no	no	no	yes	
55134.81c	132.757	ENDF71x	ENDF/B-VII.1	2006	600.0	136161	4595	20.0	no	no	no	no	yes	
55134.82c	132.757	ENDF71x	ENDF/B-VII.1	2006	900.0	135833	4548	20.0	no	no	no	no	yes	
55134.83c	132.757	ENDF71x	ENDF/B-VII.1	2006	1200.0	135448	4493	20.0	no	no	no	no	yes	
55134.84c	132.757	ENDF71x	ENDF/B-VII.1	2006	2500.0	134720	4389	20.0	no	no	no	no	yes	
55134.85c	132.757	ENDF71x	ENDF/B-VII.1	2006	0.1	138718	4960	20.0	no	no	no	no	yes	
55134.86c	132.757	ENDF71x	ENDF/B-VII.1	2006	250.0	137162	4738	20.0	no	no	no	no	yes	
55134.70c	132.757	endf70f	ENDF/B-VII.0	2006	293.6	136879	4755	20	no	no	no	no	yes	
55134.71c	132.757	endf70f	ENDF/B-VII.0	2006	600	136003	4630	20	no	no	no	no	yes	
55134.72c	132.757	endf70f	ENDF/B-VII.0	2006	900	135675	4583	20	no	no	no	no	yes	
55134.73c	132.757	endf70f	ENDF/B-VII.0	2006	1200	135290	4528	20	no	no	no	no	yes	
55134.74c	132.757	endf70f	ENDF/B-VII.0	2006	2500	134562	4424	20	no	no	no	no	yes	
55134.60c	132.757	endf60	ENDF/B-VI.0	1988	293.6	10227	1602	20	no	no	no	no	no	
55134.710nc	132.757	ENDF71x	ENDF/B-VII.1	2006	293.6	137037	4720	20.0	no	no	no	no	yes	
55134.711nc	132.757	ENDF71x	ENDF/B-VII.1	2006	600.0	136161	4595	20.0	no	no	no	no	yes	
55134.712nc	132.757	ENDF71x	ENDF/B-VII.1	2006	900.0	135833	4548	20.0	no	no	no	no	yes	

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
55134.713nc	132.757	ENDF71x	ENDF/B-VII.1	2006	1200.0	135448	4493	20.0	no	no	no	no	yes	
55134.714nc	132.757	ENDF71x	ENDF/B-VII.1	2006	2500.0	134720	4389	20.0	no	no	no	no	yes	
55134.715nc	132.757	ENDF71x	ENDF/B-VII.1	2006	0.1	138718	4960	20.0	no	no	no	no	yes	
55134.716nc	132.757	ENDF71x	ENDF/B-VII.1	2006	250.0	137162	4738	20.0	no	no	no	no	yes	
Cs-135														
55135.80c	133.747	ENDF71x	ENDF/B-VII.1	2006	293.6	68161	4122	20.0	no	no	no	no	yes	
55135.81c	133.747	ENDF71x	ENDF/B-VII.1	2006	600.0	67439	4019	20.0	no	no	no	no	yes	
55135.82c	133.747	ENDF71x	ENDF/B-VII.1	2006	900.0	67117	3973	20.0	no	no	no	no	yes	
55135.83c	133.747	ENDF71x	ENDF/B-VII.1	2006	1200.0	66782	3925	20.0	no	no	no	no	yes	
55135.84c	133.747	ENDF71x	ENDF/B-VII.1	2006	2500.0	66348	3863	20.0	no	no	no	no	yes	
55135.85c	133.747	ENDF71x	ENDF/B-VII.1	2006	0.1	70212	4415	20.0	no	no	no	no	yes	
55135.86c	133.747	ENDF71x	ENDF/B-VII.1	2006	250.0	68328	4146	20.0	no	no	no	no	yes	
55135.70c	133.747	endf70f	ENDF/B-VII.0	2006	293.6	67935	4155	20	no	no	no	no	yes	
55135.71c	133.747	endf70f	ENDF/B-VII.0	2006	600	67213	4052	20	no	no	no	no	yes	
55135.72c	133.747	endf70f	ENDF/B-VII.0	2006	900	66891	4006	20	no	no	no	no	yes	
55135.73c	133.747	endf70f	ENDF/B-VII.0	2006	1200	66556	3958	20	no	no	no	no	yes	
55135.74c	133.747	endf70f	ENDF/B-VII.0	2006	2500	66122	3896	20	no	no	no	no	yes	
55135.60c	133.747	endf60	ENDF/B-VI.0	1974	293.6	3120	388	20	no	no	no	no	no	
55135.50c	133.747	kidman	ENDF/B-V.0	1974	293.6	1903	199	20	no	no	no	no	no	
55135.710nc	133.747	ENDF71x	ENDF/B-VII.1	2006	293.6	68161	4122	20.0	no	no	no	no	yes	
55135.711nc	133.747	ENDF71x	ENDF/B-VII.1	2006	600.0	67439	4019	20.0	no	no	no	no	yes	
55135.712nc	133.747	ENDF71x	ENDF/B-VII.1	2006	900.0	67117	3973	20.0	no	no	no	no	yes	
55135.713nc	133.747	ENDF71x	ENDF/B-VII.1	2006	1200.0	66782	3925	20.0	no	no	no	no	yes	
55135.714nc	133.747	ENDF71x	ENDF/B-VII.1	2006	2500.0	66348	3863	20.0	no	no	no	no	yes	
55135.715nc	133.747	ENDF71x	ENDF/B-VII.1	2006	0.1	70212	4415	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
55135.716nc	133.747	ENDF71x	ENDF/B-VII.1	2006	250.0	68328	4146	20.0	no	no	no	no	yes	
Cs-136														
55136.80c	134.739	ENDF71x	ENDF/B-VII.1	2006	293.6	54596	2698	20.0	no	no	no	no	yes	
55136.81c	134.739	ENDF71x	ENDF/B-VII.1	2006	600.0	54653	2706	20.0	no	no	no	no	yes	
55136.82c	134.739	ENDF71x	ENDF/B-VII.1	2006	900.0	54561	2693	20.0	no	no	no	no	yes	
55136.83c	134.739	ENDF71x	ENDF/B-VII.1	2006	1200.0	54597	2698	20.0	no	no	no	no	yes	
55136.84c	134.739	ENDF71x	ENDF/B-VII.1	2006	2500.0	54639	2704	20.0	no	no	no	no	yes	
55136.85c	134.739	ENDF71x	ENDF/B-VII.1	2006	0.1	54450	2677	20.0	no	no	no	no	yes	
55136.86c	134.739	ENDF71x	ENDF/B-VII.1	2006	250.0	54575	2695	20.0	no	no	no	no	yes	
55136.70c	134.739	endf70f	ENDF/B-VII.0	2006	293.6	49990	2706	20	no	no	no	no	no	
55136.71c	134.739	endf70f	ENDF/B-VII.0	2006	600	50054	2715	20	no	no	no	no	no	
55136.72c	134.739	endf70f	ENDF/B-VII.0	2006	900	49955	2701	20	no	no	no	no	no	
55136.73c	134.739	endf70f	ENDF/B-VII.0	2006	1200	49991	2706	20	no	no	no	no	no	
55136.74c	134.739	endf70f	ENDF/B-VII.0	2006	2500	50033	2712	20	no	no	no	no	no	
55136.60c	134.74	endf60	ENDF/B-VI.0	1974	293.6	10574	1748	20	no	no	no	no	no	
55136.710nc	134.739	ENDF71x	ENDF/B-VII.1	2006	293.6	54596	2698	20.0	no	no	no	no	yes	
55136.711nc	134.739	ENDF71x	ENDF/B-VII.1	2006	600.0	54653	2706	20.0	no	no	no	no	yes	
55136.712nc	134.739	ENDF71x	ENDF/B-VII.1	2006	900.0	54561	2693	20.0	no	no	no	no	yes	
55136.713nc	134.739	ENDF71x	ENDF/B-VII.1	2006	1200.0	54597	2698	20.0	no	no	no	no	yes	
55136.714nc	134.739	ENDF71x	ENDF/B-VII.1	2006	2500.0	54639	2704	20.0	no	no	no	no	yes	
55136.715nc	134.739	ENDF71x	ENDF/B-VII.1	2006	0.1	54450	2677	20.0	no	no	no	no	yes	
55136.716nc	134.739	ENDF71x	ENDF/B-VII.1	2006	250.0	54575	2695	20.0	no	no	no	no	yes	
Cs-137														
55137.80c	135.731	ENDF71x	ENDF/B-VII.1	2006	293.6	58961	2353	20.0	no	no	no	no	yes	
55137.81c	135.731	ENDF71x	ENDF/B-VII.1	2006	600.0	58967	2354	20.0	no	no	no	no	yes	

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
55137.82c	135.731	ENDF71x	ENDF/B-VII.1	2006	900.0	58955	2352	20.0	no	no	no	no	yes	
55137.83c	135.731	ENDF71x	ENDF/B-VII.1	2006	1200.0	58953	2352	20.0	no	no	no	no	yes	
55137.84c	135.731	ENDF71x	ENDF/B-VII.1	2006	2500.0	58947	2351	20.0	no	no	no	no	yes	
55137.85c	135.731	ENDF71x	ENDF/B-VII.1	2006	0.1	58933	2349	20.0	no	no	no	no	yes	
55137.86c	135.731	ENDF71x	ENDF/B-VII.1	2006	250.0	58960	2353	20.0	no	no	no	no	yes	
55137.70c	135.731	endf70f	ENDF/B-VII.0	2006	293.6	58989	2375	20	no	no	no	no	yes	
55137.71c	135.731	endf70f	ENDF/B-VII.0	2006	600	58995	2376	20	no	no	no	no	yes	
55137.72c	135.731	endf70f	ENDF/B-VII.0	2006	900	58983	2374	20	no	no	no	no	yes	
55137.73c	135.731	endf70f	ENDF/B-VII.0	2006	1200	58981	2374	20	no	no	no	no	yes	
55137.74c	135.731	endf70f	ENDF/B-VII.0	2006	2500	58975	2373	20	no	no	no	no	yes	
55137.60c	135.731	endf60	ENDF/B-VI.0	1974	293.6	2925	369	20	no	no	no	no	no	
55137.710nc	135.731	ENDF71x	ENDF/B-VII.1	2006	293.6	58961	2353	20.0	no	no	no	no	yes	
55137.711nc	135.731	ENDF71x	ENDF/B-VII.1	2006	600.0	58967	2354	20.0	no	no	no	no	yes	
55137.712nc	135.731	ENDF71x	ENDF/B-VII.1	2006	900.0	58955	2352	20.0	no	no	no	no	yes	
55137.713nc	135.731	ENDF71x	ENDF/B-VII.1	2006	1200.0	58953	2352	20.0	no	no	no	no	yes	
55137.714nc	135.731	ENDF71x	ENDF/B-VII.1	2006	2500.0	58947	2351	20.0	no	no	no	no	yes	
55137.715nc	135.731	ENDF71x	ENDF/B-VII.1	2006	0.1	58933	2349	20.0	no	no	no	no	yes	
55137.716nc	135.731	ENDF71x	ENDF/B-VII.1	2006	250.0	58960	2353	20.0	no	no	no	no	yes	
				Z = 56, barium										
Ba-130														
56130.80c	128.79	ENDF71x	ENDF/B-VII.1	2006	293.6	155563	14592	20.0	no	no	no	no	yes	
56130.81c	128.79	ENDF71x	ENDF/B-VII.1	2006	600.0	150732	13902	20.0	no	no	no	no	yes	
56130.82c	128.79	ENDF71x	ENDF/B-VII.1	2006	900.0	147988	13510	20.0	no	no	no	no	yes	
56130.83c	128.79	ENDF71x	ENDF/B-VII.1	2006	1200.0	145987	13224	20.0	no	no	no	no	yes	
56130.84c	128.79	ENDF71x	ENDF/B-VII.1	2006	2500.0	140498	12440	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
56130.85c	128.79	ENDF71x	ENDF/B-VII.1	2006	0.1	180098	18097	20.0	no	no	no	no	yes	
56130.86c	128.79	ENDF71x	ENDF/B-VII.1	2006	250.0	156291	14696	20.0	no	no	no	no	yes	
56130.70c	128.79	endf70f	ENDF/B-VII.0	2006	293.6	155953	14649	20	no	no	no	no	yes	
56130.71c	128.79	endf70f	ENDF/B-VII.0	2006	600	151122	13959	20	no	no	no	no	yes	
56130.72c	128.79	endf70f	ENDF/B-VII.0	2006	900	148378	13567	20	no	no	no	no	yes	
56130.73c	128.79	endf70f	ENDF/B-VII.0	2006	1200	146377	13281	20	no	no	no	no	yes	
56130.74c	128.79	endf70f	ENDF/B-VII.0	2006	2500	140888	12497	20	no	no	no	no	yes	
56130.710nc	128.79	ENDF71x	ENDF/B-VII.1	2006	293.6	155563	14592	20.0	no	no	no	no	yes	
56130.711nc	128.79	ENDF71x	ENDF/B-VII.1	2006	600.0	150732	13902	20.0	no	no	no	no	yes	
56130.712nc	128.79	ENDF71x	ENDF/B-VII.1	2006	900.0	147988	13510	20.0	no	no	no	no	yes	
56130.713nc	128.79	ENDF71x	ENDF/B-VII.1	2006	1200.0	145987	13224	20.0	no	no	no	no	yes	
56130.714nc	128.79	ENDF71x	ENDF/B-VII.1	2006	2500.0	140498	12440	20.0	no	no	no	no	yes	
56130.715nc	128.79	ENDF71x	ENDF/B-VII.1	2006	0.1	180098	18097	20.0	no	no	no	no	yes	
56130.716nc	128.79	ENDF71x	ENDF/B-VII.1	2006	250.0	156291	14696	20.0	no	no	no	no	yes	
Ba-132														
56132.80c	130.772	ENDF71x	ENDF/B-VII.1	2006	293.6	74992	3035	20.0	no	no	no	no	yes	
56132.81c	130.772	ENDF71x	ENDF/B-VII.1	2006	600.0	74882	3019	20.0	no	no	no	no	yes	
56132.82c	130.772	ENDF71x	ENDF/B-VII.1	2006	900.0	74656	2987	20.0	no	no	no	no	yes	
56132.83c	130.772	ENDF71x	ENDF/B-VII.1	2006	1200.0	74585	2977	20.0	no	no	no	no	yes	
56132.84c	130.772	ENDF71x	ENDF/B-VII.1	2006	2500.0	74315	2938	20.0	no	no	no	no	yes	
56132.85c	130.772	ENDF71x	ENDF/B-VII.1	2006	0.1	75834	3155	20.0	no	no	no	no	yes	
56132.86c	130.772	ENDF71x	ENDF/B-VII.1	2006	250.0	75104	3051	20.0	no	no	no	no	yes	
56132.70c	130.772	endf70f	ENDF/B-VII.0	2006	293.6	74827	3097	20	no	no	no	no	yes	
56132.71c	130.772	endf70f	ENDF/B-VII.0	2006	600	74717	3081	20	no	no	no	no	yes	
56132.72c	130.772	endf70f	ENDF/B-VII.0	2006	900	74491	3049	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
56132.73c	130.772	endf70f	ENDF/B-VII.0	2006	1200	74420	3039	20	no	no	no	no	yes	
56132.74c	130.772	endf70f	ENDF/B-VII.0	2006	2500	74150	3000	20	no	no	no	no	yes	
56132.710nc	130.772	ENDF71x	ENDF/B-VII.1	2006	293.6	74992	3035	20.0	no	no	no	no	yes	
56132.711nc	130.772	ENDF71x	ENDF/B-VII.1	2006	600.0	74882	3019	20.0	no	no	no	no	yes	
56132.712nc	130.772	ENDF71x	ENDF/B-VII.1	2006	900.0	74656	2987	20.0	no	no	no	no	yes	
56132.713nc	130.772	ENDF71x	ENDF/B-VII.1	2006	1200.0	74585	2977	20.0	no	no	no	no	yes	
56132.714nc	130.772	ENDF71x	ENDF/B-VII.1	2006	2500.0	74315	2938	20.0	no	no	no	no	yes	
56132.715nc	130.772	ENDF71x	ENDF/B-VII.1	2006	0.1	75834	3155	20.0	no	no	no	no	yes	
56132.716nc	130.772	ENDF71x	ENDF/B-VII.1	2006	250.0	75104	3051	20.0	no	no	no	no	yes	
Ba-133														
56133.80c	131.764	ENDF71x	ENDF/B-VII.1	2006	293.6	362953	2741	20.0	yes	no	yes	no	yes	
56133.81c	131.764	ENDF71x	ENDF/B-VII.1	2006	600.0	362401	2672	20.0	yes	no	yes	no	yes	
56133.82c	131.764	ENDF71x	ENDF/B-VII.1	2006	900.0	361833	2601	20.0	yes	no	yes	no	yes	
56133.83c	131.764	ENDF71x	ENDF/B-VII.1	2006	1200.0	361552	2566	20.0	yes	no	yes	no	yes	
56133.84c	131.764	ENDF71x	ENDF/B-VII.1	2006	2500.0	360448	2428	20.0	yes	no	yes	no	yes	
56133.85c	131.764	ENDF71x	ENDF/B-VII.1	2006	0.1	363920	2862	20.0	yes	no	yes	no	yes	
56133.86c	131.764	ENDF71x	ENDF/B-VII.1	2006	250.0	363056	2754	20.0	yes	no	yes	no	yes	
56133.70c	131.764	endf70f	ENDF/B-VII.0	2006	293.6	364826	2856	20	yes	no	yes	no	yes	
56133.71c	131.764	endf70f	ENDF/B-VII.0	2006	600	364274	2787	20	yes	no	yes	no	yes	
56133.72c	131.764	endf70f	ENDF/B-VII.0	2006	900	363706	2716	20	yes	no	yes	no	yes	
56133.73c	131.764	endf70f	ENDF/B-VII.0	2006	1200	363425	2681	20	yes	no	yes	no	yes	
56133.74c	131.764	endf70f	ENDF/B-VII.0	2006	2500	362321	2543	20	yes	no	yes	no	yes	
56133.710nc	131.764	ENDF71x	ENDF/B-VII.1	2006	293.6	362953	2741	20.0	yes	no	yes	no	yes	
56133.711nc	131.764	ENDF71x	ENDF/B-VII.1	2006	600.0	362401	2672	20.0	yes	no	yes	no	yes	
56133.712nc	131.764	ENDF71x	ENDF/B-VII.1	2006	900.0	361833	2601	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
56133.713nc	131.764	ENDF71x	ENDF/B-VII.1	2006	1200.0	361552	2566	20.0	yes	no	yes	no	yes	
56133.714nc	131.764	ENDF71x	ENDF/B-VII.1	2006	2500.0	360448	2428	20.0	yes	no	yes	no	yes	
56133.715nc	131.764	ENDF71x	ENDF/B-VII.1	2006	0.1	363920	2862	20.0	yes	no	yes	no	yes	
56133.716nc	131.764	ENDF71x	ENDF/B-VII.1	2006	250.0	363056	2754	20.0	yes	no	yes	no	yes	
Ba-134														
56134.80c	132.754	ENDF71x	ENDF/B-VII.1	2006	293.6	173460	17154	20.0	no	no	no	no	yes	
56134.81c	132.754	ENDF71x	ENDF/B-VII.1	2006	600.0	169155	16539	20.0	no	no	no	no	yes	
56134.82c	132.754	ENDF71x	ENDF/B-VII.1	2006	900.0	165502	16017	20.0	no	no	no	no	yes	
56134.83c	132.754	ENDF71x	ENDF/B-VII.1	2006	1200.0	163303	15703	20.0	no	no	no	no	yes	
56134.84c	132.754	ENDF71x	ENDF/B-VII.1	2006	2500.0	158031	14950	20.0	no	no	no	no	yes	
56134.85c	132.754	ENDF71x	ENDF/B-VII.1	2006	0.1	211406	22575	20.0	no	no	no	no	yes	
56134.86c	132.754	ENDF71x	ENDF/B-VII.1	2006	250.0	174432	17293	20.0	no	no	no	no	yes	
56134.70c	132.754	endf70f	ENDF/B-VII.0	2006	293.6	173726	17204	20	no	no	no	no	yes	
56134.71c	132.754	endf70f	ENDF/B-VII.0	2006	600	169421	16589	20	no	no	no	no	yes	
56134.72c	132.754	endf70f	ENDF/B-VII.0	2006	900	165768	16067	20	no	no	no	no	yes	
56134.73c	132.754	endf70f	ENDF/B-VII.0	2006	1200	163569	15753	20	no	no	no	no	yes	
56134.74c	132.754	endf70f	ENDF/B-VII.0	2006	2500	158297	15000	20	no	no	no	no	yes	
56134.710nc	132.754	ENDF71x	ENDF/B-VII.1	2006	293.6	173460	17154	20.0	no	no	no	no	yes	
56134.711nc	132.754	ENDF71x	ENDF/B-VII.1	2006	600.0	169155	16539	20.0	no	no	no	no	yes	
56134.712nc	132.754	ENDF71x	ENDF/B-VII.1	2006	900.0	165502	16017	20.0	no	no	no	no	yes	
56134.713nc	132.754	ENDF71x	ENDF/B-VII.1	2006	1200.0	163303	15703	20.0	no	no	no	no	yes	
56134.714nc	132.754	ENDF71x	ENDF/B-VII.1	2006	2500.0	158031	14950	20.0	no	no	no	no	yes	
56134.715nc	132.754	ENDF71x	ENDF/B-VII.1	2006	0.1	211406	22575	20.0	no	no	no	no	yes	
56134.716nc	132.754	ENDF71x	ENDF/B-VII.1	2006	250.0	174432	17293	20.0	no	no	no	no	yes	
Ba-135														

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
56135.80c	133.747	ENDF71x	ENDF/B-VII.1	2006	293.6	208372	23003	20.0	no	no	no	no	yes	
56135.81c	133.747	ENDF71x	ENDF/B-VII.1	2006	600.0	198592	21606	20.0	no	no	no	no	yes	
56135.82c	133.747	ENDF71x	ENDF/B-VII.1	2006	900.0	193603	20893	20.0	no	no	no	no	yes	
56135.83c	133.747	ENDF71x	ENDF/B-VII.1	2006	1200.0	189442	20299	20.0	no	no	no	no	yes	
56135.84c	133.747	ENDF71x	ENDF/B-VII.1	2006	2500.0	176975	18518	20.0	no	no	no	no	yes	
56135.85c	133.747	ENDF71x	ENDF/B-VII.1	2006	0.1	253710	29480	20.0	no	no	no	no	yes	
56135.86c	133.747	ENDF71x	ENDF/B-VII.1	2006	250.0	210407	23294	20.0	no	no	no	no	yes	
56135.70c	133.747	endf70f	ENDF/B-VII.0	2006	293.6	208697	23042	20	no	no	no	no	yes	
56135.71c	133.747	endf70f	ENDF/B-VII.0	2006	600	198917	21645	20	no	no	no	no	yes	
56135.72c	133.747	endf70f	ENDF/B-VII.0	2006	900	193928	20932	20	no	no	no	no	yes	
56135.73c	133.747	endf70f	ENDF/B-VII.0	2006	1200	189767	20338	20	no	no	no	no	yes	
56135.74c	133.747	endf70f	ENDF/B-VII.0	2006	2500	177300	18557	20	no	no	no	no	yes	
56135.710nc	133.747	ENDF71x	ENDF/B-VII.1	2006	293.6	208372	23003	20.0	no	no	no	no	yes	
56135.711nc	133.747	ENDF71x	ENDF/B-VII.1	2006	600.0	198592	21606	20.0	no	no	no	no	yes	
56135.712nc	133.747	ENDF71x	ENDF/B-VII.1	2006	900.0	193603	20893	20.0	no	no	no	no	yes	
56135.713nc	133.747	ENDF71x	ENDF/B-VII.1	2006	1200.0	189442	20299	20.0	no	no	no	no	yes	
56135.714nc	133.747	ENDF71x	ENDF/B-VII.1	2006	2500.0	176975	18518	20.0	no	no	no	no	yes	
56135.715nc	133.747	ENDF71x	ENDF/B-VII.1	2006	0.1	253710	29480	20.0	no	no	no	no	yes	
56135.716nc	133.747	ENDF71x	ENDF/B-VII.1	2006	250.0	210407	23294	20.0	no	no	no	no	yes	
Ba-136														
56136.80c	134.737	ENDF71x	ENDF/B-VII.1	2006	293.6	172453	18339	20.0	no	no	no	no	yes	
56136.81c	134.737	ENDF71x	ENDF/B-VII.1	2006	600.0	166685	17515	20.0	no	no	no	no	yes	
56136.82c	134.737	ENDF71x	ENDF/B-VII.1	2006	900.0	163262	17026	20.0	no	no	no	no	yes	
56136.83c	134.737	ENDF71x	ENDF/B-VII.1	2006	1200.0	160981	16700	20.0	no	no	no	no	yes	
56136.84c	134.737	ENDF71x	ENDF/B-VII.1	2006	2500.0	154422	15763	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
56136.85c	134.737	ENDF71x	ENDF/B-VII.1	2006	0.1	206460	23197	20.0	no	no	no	no	yes	
56136.86c	134.737	ENDF71x	ENDF/B-VII.1	2006	250.0	173582	18500	20.0	no	no	no	no	yes	
56136.70c	134.737	endf70f	ENDF/B-VII.0	2006	293.6	172972	18380	20	no	no	no	no	yes	
56136.71c	134.737	endf70f	ENDF/B-VII.0	2006	600	167204	17556	20	no	no	no	no	yes	
56136.72c	134.737	endf70f	ENDF/B-VII.0	2006	900	163781	17067	20	no	no	no	no	yes	
56136.73c	134.737	endf70f	ENDF/B-VII.0	2006	1200	161500	16741	20	no	no	no	no	yes	
56136.74c	134.737	endf70f	ENDF/B-VII.0	2006	2500	154941	15804	20	no	no	no	no	yes	
56136.710nc	134.737	ENDF71x	ENDF/B-VII.1	2006	293.6	172453	18339	20.0	no	no	no	no	yes	
56136.711nc	134.737	ENDF71x	ENDF/B-VII.1	2006	600.0	166685	17515	20.0	no	no	no	no	yes	
56136.712nc	134.737	ENDF71x	ENDF/B-VII.1	2006	900.0	163262	17026	20.0	no	no	no	no	yes	
56136.713nc	134.737	ENDF71x	ENDF/B-VII.1	2006	1200.0	160981	16700	20.0	no	no	no	no	yes	
56136.714nc	134.737	ENDF71x	ENDF/B-VII.1	2006	2500.0	154422	15763	20.0	no	no	no	no	yes	
56136.715nc	134.737	ENDF71x	ENDF/B-VII.1	2006	0.1	206460	23197	20.0	no	no	no	no	yes	
56136.716nc	134.737	ENDF71x	ENDF/B-VII.1	2006	250.0	173582	18500	20.0	no	no	no	no	yes	
Ba-137														
56137.80c	135.73	ENDF71x	ENDF/B-VII.1	2006	293.6	141532	14150	20.0	no	no	no	no	yes	
56137.81c	135.73	ENDF71x	ENDF/B-VII.1	2006	600.0	138781	13757	20.0	no	no	no	no	yes	
56137.82c	135.73	ENDF71x	ENDF/B-VII.1	2006	900.0	135528	13292	20.0	no	no	no	no	yes	
56137.83c	135.73	ENDF71x	ENDF/B-VII.1	2006	1200.0	134294	13116	20.0	no	no	no	no	yes	
56137.84c	135.73	ENDF71x	ENDF/B-VII.1	2006	2500.0	129550	12438	20.0	no	no	no	no	yes	
56137.85c	135.73	ENDF71x	ENDF/B-VII.1	2006	0.1	166083	17657	20.0	no	no	no	no	yes	
56137.86c	135.73	ENDF71x	ENDF/B-VII.1	2006	250.0	142183	14243	20.0	no	no	no	no	yes	
56137.70c	135.73	endf70f	ENDF/B-VII.0	2006	293.6	141198	14180	20	no	no	no	no	yes	
56137.71c	135.73	endf70f	ENDF/B-VII.0	2006	600	138447	13787	20	no	no	no	no	yes	
56137.72c	135.73	endf70f	ENDF/B-VII.0	2006	900	135194	13322	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
56137.73c	135.73	endf70f	ENDF/B-VII.0	2006	1200	133960	13146	20	no	no	no	no	yes	
56137.74c	135.73	endf70f	ENDF/B-VII.0	2006	2500	129216	12468	20	no	no	no	no	yes	
56137.710nc	135.73	ENDF71x	ENDF/B-VII.1	2006	293.6	141532	14150	20.0	no	no	no	no	yes	
56137.711nc	135.73	ENDF71x	ENDF/B-VII.1	2006	600.0	138781	13757	20.0	no	no	no	no	yes	
56137.712nc	135.73	ENDF71x	ENDF/B-VII.1	2006	900.0	135528	13292	20.0	no	no	no	no	yes	
56137.713nc	135.73	ENDF71x	ENDF/B-VII.1	2006	1200.0	134294	13116	20.0	no	no	no	no	yes	
56137.714nc	135.73	ENDF71x	ENDF/B-VII.1	2006	2500.0	129550	12438	20.0	no	no	no	no	yes	
56137.715nc	135.73	ENDF71x	ENDF/B-VII.1	2006	0.1	166083	17657	20.0	no	no	no	no	yes	
56137.716nc	135.73	ENDF71x	ENDF/B-VII.1	2006	250.0	142183	14243	20.0	no	no	no	no	yes	
Ba-138														
56138.80c	136.72	ENDF71x	ENDF/B-VII.1	2006	293.6	72548	6398	20.0	no	no	no	no	no	
56138.81c	136.72	ENDF71x	ENDF/B-VII.1	2006	600.0	71722	6280	20.0	no	no	no	no	no	
56138.82c	136.72	ENDF71x	ENDF/B-VII.1	2006	900.0	71111	6193	20.0	no	no	no	no	no	
56138.83c	136.72	ENDF71x	ENDF/B-VII.1	2006	1200.0	70622	6123	20.0	no	no	no	no	no	
56138.84c	136.72	ENDF71x	ENDF/B-VII.1	2006	2500.0	69222	5923	20.0	no	no	no	no	no	
56138.85c	136.72	ENDF71x	ENDF/B-VII.1	2006	0.1	78649	7270	20.0	no	no	no	no	no	
56138.86c	136.72	ENDF71x	ENDF/B-VII.1	2006	250.0	72854	6442	20.0	no	no	no	no	no	
56138.70c	136.72	endf70f	ENDF/B-VII.0	2006	293.6	72716	6422	20	no	no	no	no	no	
56138.71c	136.72	endf70f	ENDF/B-VII.0	2006	600	71890	6304	20	no	no	no	no	no	
56138.72c	136.72	endf70f	ENDF/B-VII.0	2006	900	71279	6217	20	no	no	no	no	no	
56138.73c	136.72	endf70f	ENDF/B-VII.0	2006	1200	70790	6147	20	no	no	no	no	no	
56138.74c	136.72	endf70f	ENDF/B-VII.0	2006	2500	69390	5947	20	no	no	no	no	no	
56138.66c	136.715	endf66b	ENDF/B-VI.3	1994	293.6	79268	8920	20	yes	no	no	no	no	
56138.60c	136.715	endf60	ENDF/B-VI.0	1978	293.6	7347	267	20	yes	no	no	no	no	
56138.50c	136.715	rmccs	ENDF/B-V.0	1978	293.6	6018	292	20	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
56138.710nc	136.72	ENDF71x	ENDF/B-VII.1	2006	293.6	72548	6398	20.0	no	no	no	no	no	
56138.711nc	136.72	ENDF71x	ENDF/B-VII.1	2006	600.0	71722	6280	20.0	no	no	no	no	no	
56138.712nc	136.72	ENDF71x	ENDF/B-VII.1	2006	900.0	71111	6193	20.0	no	no	no	no	no	
56138.713nc	136.72	ENDF71x	ENDF/B-VII.1	2006	1200.0	70622	6123	20.0	no	no	no	no	no	
56138.714nc	136.72	ENDF71x	ENDF/B-VII.1	2006	2500.0	69222	5923	20.0	no	no	no	no	no	
56138.715nc	136.72	ENDF71x	ENDF/B-VII.1	2006	0.1	78649	7270	20.0	no	no	no	no	no	
56138.716nc	136.72	ENDF71x	ENDF/B-VII.1	2006	250.0	72854	6442	20.0	no	no	no	no	no	
Ba-140														
56140.80c	138.708	ENDF71x	ENDF/B-VII.1	1989	293.6	34630	3216	20.0	no	no	no	no	yes	
56140.81c	138.708	ENDF71x	ENDF/B-VII.1	1989	600.0	33918	3136	20.0	no	no	no	no	yes	
56140.82c	138.708	ENDF71x	ENDF/B-VII.1	1989	900.0	33815	3082	20.0	no	no	no	no	yes	
56140.83c	138.708	ENDF71x	ENDF/B-VII.1	1989	1200.0	33616	3060	20.0	no	no	no	no	yes	
56140.84c	138.708	ENDF71x	ENDF/B-VII.1	1989	2500.0	32843	2974	20.0	no	no	no	no	yes	
56140.85c	138.708	ENDF71x	ENDF/B-VII.1	1989	0.1	38893	3691	20.0	no	no	no	no	yes	
56140.86c	138.708	ENDF71x	ENDF/B-VII.1	1989	250.0	34835	3239	20.0	no	no	no	no	yes	
56140.70c	138.708	endf70f	ENDF/B-VII.0	1989	293.6	35023	3257	20	no	no	no	no	yes	
56140.71c	138.708	endf70f	ENDF/B-VII.0	1989	600	34311	3177	20	no	no	no	no	yes	
56140.72c	138.708	endf70f	ENDF/B-VII.0	1989	900	34207	3123	20	no	no	no	no	yes	
56140.73c	138.708	endf70f	ENDF/B-VII.0	1989	1200	34009	3101	20	no	no	no	no	yes	
56140.74c	138.708	endf70f	ENDF/B-VII.0	1989	2500	33236	3015	20	no	no	no	no	yes	
56140.710nc	138.708	ENDF71x	ENDF/B-VII.1	1989	293.6	34630	3216	20.0	no	no	no	no	yes	
56140.711nc	138.708	ENDF71x	ENDF/B-VII.1	1989	600.0	33918	3136	20.0	no	no	no	no	yes	
56140.712nc	138.708	ENDF71x	ENDF/B-VII.1	1989	900.0	33815	3082	20.0	no	no	no	no	yes	
56140.713nc	138.708	ENDF71x	ENDF/B-VII.1	1989	1200.0	33616	3060	20.0	no	no	no	no	yes	
56140.714nc	138.708	ENDF71x	ENDF/B-VII.1	1989	2500.0	32843	2974	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
56140.715nc	138.708	ENDF71x	ENDF/B-VII.1	1989	0.1	38893	3691	20.0	no	no	no	no	yes	
56140.716nc	138.708	ENDF71x	ENDF/B-VII.1	1989	250.0	34835	3239	20.0	no	no	no	no	yes	
			Z = 57, lanthanum											
La-138														
57138.80c	136.722	ENDF71x	ENDF/B-VII.1	2006	293.6	108133	5610	20.0	no	no	no	no	yes	
57138.81c	136.722	ENDF71x	ENDF/B-VII.1	2006	600.0	107244	5483	20.0	no	no	no	no	yes	
57138.82c	136.722	ENDF71x	ENDF/B-VII.1	2006	900.0	106861	5428	20.0	no	no	no	no	yes	
57138.83c	136.722	ENDF71x	ENDF/B-VII.1	2006	1200.0	106258	5342	20.0	no	no	no	no	yes	
57138.84c	136.722	ENDF71x	ENDF/B-VII.1	2006	2500.0	105669	5258	20.0	no	no	no	no	yes	
57138.85c	136.722	ENDF71x	ENDF/B-VII.1	2006	0.1	110269	5915	20.0	no	no	no	no	yes	
57138.86c	136.722	ENDF71x	ENDF/B-VII.1	2006	250.0	108372	5644	20.0	no	no	no	no	yes	
57138.70c	136.722	endf70f	ENDF/B-VII.0	2006	293.6	108075	5644	20	no	no	no	no	yes	
57138.71c	136.722	endf70f	ENDF/B-VII.0	2006	600	107186	5517	20	no	no	no	no	yes	
57138.72c	136.722	endf70f	ENDF/B-VII.0	2006	900	106803	5462	20	no	no	no	no	yes	
57138.73c	136.722	endf70f	ENDF/B-VII.0	2006	1200	106200	5376	20	no	no	no	no	yes	
57138.74c	136.722	endf70f	ENDF/B-VII.0	2006	2500	105611	5292	20	no	no	no	no	yes	
57138.710nc	136.722	ENDF71x	ENDF/B-VII.1	2006	293.6	108133	5610	20.0	no	no	no	no	yes	
57138.711nc	136.722	ENDF71x	ENDF/B-VII.1	2006	600.0	107244	5483	20.0	no	no	no	no	yes	
57138.712nc	136.722	ENDF71x	ENDF/B-VII.1	2006	900.0	106861	5428	20.0	no	no	no	no	yes	
57138.713nc	136.722	ENDF71x	ENDF/B-VII.1	2006	1200.0	106258	5342	20.0	no	no	no	no	yes	
57138.714nc	136.722	ENDF71x	ENDF/B-VII.1	2006	2500.0	105669	5258	20.0	no	no	no	no	yes	
57138.715nc	136.722	ENDF71x	ENDF/B-VII.1	2006	0.1	110269	5915	20.0	no	no	no	no	yes	
57138.716nc	136.722	ENDF71x	ENDF/B-VII.1	2006	250.0	108372	5644	20.0	no	no	no	no	yes	
La-139														
57139.80c	137.71	ENDF71x	ENDF/B-VII.1	2006	293.6	209934	21742	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
57139.81c	137.71	ENDF71x	ENDF/B-VII.1	2006	600.0	201829	20584	20.0	no	no	no	no	yes	
57139.82c	137.71	ENDF71x	ENDF/B-VII.1	2006	900.0	195999	19751	20.0	no	no	no	no	yes	
57139.83c	137.71	ENDF71x	ENDF/B-VII.1	2006	1200.0	192372	19233	20.0	no	no	no	no	yes	
57139.84c	137.71	ENDF71x	ENDF/B-VII.1	2006	2500.0	181913	17739	20.0	no	no	no	no	yes	
57139.85c	137.71	ENDF71x	ENDF/B-VII.1	2006	0.1	261545	29115	20.0	no	no	no	no	yes	
57139.86c	137.71	ENDF71x	ENDF/B-VII.1	2006	250.0	211454	21959	20.0	no	no	no	no	yes	
57139.70c	137.71	endf70f	ENDF/B-VII.0	2006	293.6	210419	21791	20	no	no	no	no	yes	
57139.71c	137.71	endf70f	ENDF/B-VII.0	2006	600	202314	20633	20	no	no	no	no	yes	
57139.72c	137.71	endf70f	ENDF/B-VII.0	2006	900	196484	19800	20	no	no	no	no	yes	
57139.73c	137.71	endf70f	ENDF/B-VII.0	2006	1200	192857	19282	20	no	no	no	no	yes	
57139.74c	137.71	endf70f	ENDF/B-VII.0	2006	2500	182398	17788	20	no	no	no	no	yes	
57139.710nc	137.71	ENDF71x	ENDF/B-VII.1	2006	293.6	209934	21742	20.0	no	no	no	no	yes	
57139.711nc	137.71	ENDF71x	ENDF/B-VII.1	2006	600.0	201829	20584	20.0	no	no	no	no	yes	
57139.712nc	137.71	ENDF71x	ENDF/B-VII.1	2006	900.0	195999	19751	20.0	no	no	no	no	yes	
57139.713nc	137.71	ENDF71x	ENDF/B-VII.1	2006	1200.0	192372	19233	20.0	no	no	no	no	yes	
57139.714nc	137.71	ENDF71x	ENDF/B-VII.1	2006	2500.0	181913	17739	20.0	no	no	no	no	yes	
57139.715nc	137.71	ENDF71x	ENDF/B-VII.1	2006	0.1	261545	29115	20.0	no	no	no	no	yes	
57139.716nc	137.71	ENDF71x	ENDF/B-VII.1	2006	250.0	211454	21959	20.0	no	no	no	no	yes	
La-140														
57140.80c	138.708	ENDF71x	ENDF/B-VII.1	2006	293.6	382802	6590	20.0	yes	no	yes	no	yes	
57140.81c	138.708	ENDF71x	ENDF/B-VII.1	2006	600.0	382649	6571	20.0	yes	no	yes	no	yes	
57140.82c	138.708	ENDF71x	ENDF/B-VII.1	2006	900.0	382609	6566	20.0	yes	no	yes	no	yes	
57140.83c	138.708	ENDF71x	ENDF/B-VII.1	2006	1200.0	382505	6553	20.0	yes	no	yes	no	yes	
57140.84c	138.708	ENDF71x	ENDF/B-VII.1	2006	2500.0	382105	6503	20.0	yes	no	yes	no	yes	
57140.85c	138.708	ENDF71x	ENDF/B-VII.1	2006	0.1	383497	6677	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
57140.86c	138.708	ENDF71x	ENDF/B-VII.1	2006	250.0	382825	6593	20.0	yes	no	yes	no	yes	
57140.70c	138.708	endf70f	ENDF/B-VII.0	2006	293.6	385635	6705	20	yes	no	yes	no	yes	
57140.71c	138.708	endf70f	ENDF/B-VII.0	2006	600	385482	6686	20	yes	no	yes	no	yes	
57140.72c	138.708	endf70f	ENDF/B-VII.0	2006	900	385442	6681	20	yes	no	yes	no	yes	
57140.73c	138.708	endf70f	ENDF/B-VII.0	2006	1200	385338	6668	20	yes	no	yes	no	yes	
57140.74c	138.708	endf70f	ENDF/B-VII.0	2006	2500	384938	6618	20	yes	no	yes	no	yes	
57140.710nc	138.708	ENDF71x	ENDF/B-VII.1	2006	293.6	382802	6590	20.0	yes	no	yes	no	yes	
57140.711nc	138.708	ENDF71x	ENDF/B-VII.1	2006	600.0	382649	6571	20.0	yes	no	yes	no	yes	
57140.712nc	138.708	ENDF71x	ENDF/B-VII.1	2006	900.0	382609	6566	20.0	yes	no	yes	no	yes	
57140.713nc	138.708	ENDF71x	ENDF/B-VII.1	2006	1200.0	382505	6553	20.0	yes	no	yes	no	yes	
57140.714nc	138.708	ENDF71x	ENDF/B-VII.1	2006	2500.0	382105	6503	20.0	yes	no	yes	no	yes	
57140.715nc	138.708	ENDF71x	ENDF/B-VII.1	2006	0.1	383497	6677	20.0	yes	no	yes	no	yes	
57140.716nc	138.708	ENDF71x	ENDF/B-VII.1	2006	250.0	382825	6593	20.0	yes	no	yes	no	yes	
				Z = 58, cerium										
Ce-136														
58136.80c	134.74	ENDF71x	ENDF/B-VII.1	2006	293.6	199023	3875	20.0	yes	no	yes	no	yes	
58136.81c	134.74	ENDF71x	ENDF/B-VII.1	2006	600.0	198375	3794	20.0	yes	no	yes	no	yes	
58136.82c	134.74	ENDF71x	ENDF/B-VII.1	2006	900.0	197919	3737	20.0	yes	no	yes	no	yes	
58136.83c	134.74	ENDF71x	ENDF/B-VII.1	2006	1200.0	197239	3652	20.0	yes	no	yes	no	yes	
58136.84c	134.74	ENDF71x	ENDF/B-VII.1	2006	2500.0	195888	3483	20.0	yes	no	yes	no	yes	
58136.85c	134.74	ENDF71x	ENDF/B-VII.1	2006	0.1	203424	4425	20.0	yes	no	yes	no	yes	
58136.86c	134.74	ENDF71x	ENDF/B-VII.1	2006	250.0	199279	3907	20.0	yes	no	yes	no	yes	
58136.70c	134.74	endf70f	ENDF/B-VII.0	2006	293.6	201621	3997	20	yes	no	yes	no	yes	
58136.71c	134.74	endf70f	ENDF/B-VII.0	2006	600	200973	3916	20	yes	no	yes	no	yes	
58136.72c	134.74	endf70f	ENDF/B-VII.0	2006	900	200517	3859	20	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
58136.73c	134.74	endf70f	ENDF/B-VII.0	2006	1200	199837	3774	20	yes	no	yes	no	yes	
58136.74c	134.74	endf70f	ENDF/B-VII.0	2006	2500	198486	3605	20	yes	no	yes	no	yes	
58136.710nc	134.74	ENDF71x	ENDF/B-VII.1	2006	293.6	199023	3875	20.0	yes	no	yes	no	yes	
58136.711nc	134.74	ENDF71x	ENDF/B-VII.1	2006	600.0	198375	3794	20.0	yes	no	yes	no	yes	
58136.712nc	134.74	ENDF71x	ENDF/B-VII.1	2006	900.0	197919	3737	20.0	yes	no	yes	no	yes	
58136.713nc	134.74	ENDF71x	ENDF/B-VII.1	2006	1200.0	197239	3652	20.0	yes	no	yes	no	yes	
58136.714nc	134.74	ENDF71x	ENDF/B-VII.1	2006	2500.0	195888	3483	20.0	yes	no	yes	no	yes	
58136.715nc	134.74	ENDF71x	ENDF/B-VII.1	2006	0.1	203424	4425	20.0	yes	no	yes	no	yes	
58136.716nc	134.74	ENDF71x	ENDF/B-VII.1	2006	250.0	199279	3907	20.0	yes	no	yes	no	yes	
Ce-138														
58138.80c	136.721	ENDF71x	ENDF/B-VII.1	2006	293.6	199723	3676	20.0	yes	no	yes	no	yes	
58138.81c	136.721	ENDF71x	ENDF/B-VII.1	2006	600.0	198843	3566	20.0	yes	no	yes	no	yes	
58138.82c	136.721	ENDF71x	ENDF/B-VII.1	2006	900.0	198122	3476	20.0	yes	no	yes	no	yes	
58138.83c	136.721	ENDF71x	ENDF/B-VII.1	2006	1200.0	197819	3438	20.0	yes	no	yes	no	yes	
58138.84c	136.721	ENDF71x	ENDF/B-VII.1	2006	2500.0	196626	3289	20.0	yes	no	yes	no	yes	
58138.85c	136.721	ENDF71x	ENDF/B-VII.1	2006	0.1	203651	4167	20.0	yes	no	yes	no	yes	
58138.86c	136.721	ENDF71x	ENDF/B-VII.1	2006	250.0	199978	3708	20.0	yes	no	yes	no	yes	
58138.70c	136.721	endf70f	ENDF/B-VII.0	2006	293.6	200903	3766	20	yes	no	yes	no	yes	
58138.71c	136.721	endf70f	ENDF/B-VII.0	2006	600	200023	3656	20	yes	no	yes	no	yes	
58138.72c	136.721	endf70f	ENDF/B-VII.0	2006	900	199302	3566	20	yes	no	yes	no	yes	
58138.73c	136.721	endf70f	ENDF/B-VII.0	2006	1200	198999	3528	20	yes	no	yes	no	yes	
58138.74c	136.721	endf70f	ENDF/B-VII.0	2006	2500	197806	3379	20	yes	no	yes	no	yes	
58138.710nc	136.721	ENDF71x	ENDF/B-VII.1	2006	293.6	199723	3676	20.0	yes	no	yes	no	yes	
58138.711nc	136.721	ENDF71x	ENDF/B-VII.1	2006	600.0	198843	3566	20.0	yes	no	yes	no	yes	
58138.712nc	136.721	ENDF71x	ENDF/B-VII.1	2006	900.0	198122	3476	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
58138.713nc	136.721	ENDF71x	ENDF/B-VII.1	2006	1200.0	197819	3438	20.0	yes	no	yes	no	yes	
58138.714nc	136.721	ENDF71x	ENDF/B-VII.1	2006	2500.0	196626	3289	20.0	yes	no	yes	no	yes	
58138.715nc	136.721	ENDF71x	ENDF/B-VII.1	2006	0.1	203651	4167	20.0	yes	no	yes	no	yes	
58138.716nc	136.721	ENDF71x	ENDF/B-VII.1	2006	250.0	199978	3708	20.0	yes	no	yes	no	yes	
Ce-139														
58139.80c	137.713	ENDF71x	ENDF/B-VII.1	2006	293.6	296637	4010	20.0	yes	no	yes	no	yes	
58139.81c	137.713	ENDF71x	ENDF/B-VII.1	2006	600.0	296358	3975	20.0	yes	no	yes	no	yes	
58139.82c	137.713	ENDF71x	ENDF/B-VII.1	2006	900.0	296189	3954	20.0	yes	no	yes	no	yes	
58139.83c	137.713	ENDF71x	ENDF/B-VII.1	2006	1200.0	295893	3917	20.0	yes	no	yes	no	yes	
58139.84c	137.713	ENDF71x	ENDF/B-VII.1	2006	2500.0	295669	3889	20.0	yes	no	yes	no	yes	
58139.85c	137.713	ENDF71x	ENDF/B-VII.1	2006	0.1	297701	4143	20.0	yes	no	yes	no	yes	
58139.86c	137.713	ENDF71x	ENDF/B-VII.1	2006	250.0	296757	4025	20.0	yes	no	yes	no	yes	
58139.70c	137.713	endf70f	ENDF/B-VII.0	2006	293.6	294795	4132	20	yes	no	yes	no	no	
58139.71c	137.713	endf70f	ENDF/B-VII.0	2006	600	294516	4097	20	yes	no	yes	no	no	
58139.72c	137.713	endf70f	ENDF/B-VII.0	2006	900	294347	4076	20	yes	no	yes	no	no	
58139.73c	137.713	endf70f	ENDF/B-VII.0	2006	1200	294051	4039	20	yes	no	yes	no	no	
58139.74c	137.713	endf70f	ENDF/B-VII.0	2006	2500	293827	4011	20	yes	no	yes	no	no	
58139.710nc	137.713	ENDF71x	ENDF/B-VII.1	2006	293.6	296637	4010	20.0	yes	no	yes	no	yes	
58139.711nc	137.713	ENDF71x	ENDF/B-VII.1	2006	600.0	296358	3975	20.0	yes	no	yes	no	yes	
58139.712nc	137.713	ENDF71x	ENDF/B-VII.1	2006	900.0	296189	3954	20.0	yes	no	yes	no	yes	
58139.713nc	137.713	ENDF71x	ENDF/B-VII.1	2006	1200.0	295893	3917	20.0	yes	no	yes	no	yes	
58139.714nc	137.713	ENDF71x	ENDF/B-VII.1	2006	2500.0	295669	3889	20.0	yes	no	yes	no	yes	
58139.715nc	137.713	ENDF71x	ENDF/B-VII.1	2006	0.1	297701	4143	20.0	yes	no	yes	no	yes	
58139.716nc	137.713	ENDF71x	ENDF/B-VII.1	2006	250.0	296757	4025	20.0	yes	no	yes	no	yes	
Ce-140														

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
58140.80c	138.704	ENDF71x	ENDF/B-VII.1	2006	293.6	254913	23628	20.0	no	no	no	no	no	
58140.81c	138.704	ENDF71x	ENDF/B-VII.1	2006	600.0	251298	23112	20.0	no	no	no	no	no	
58140.82c	138.704	ENDF71x	ENDF/B-VII.1	2006	900.0	248358	22692	20.0	no	no	no	no	no	
58140.83c	138.704	ENDF71x	ENDF/B-VII.1	2006	1200.0	246826	22473	20.0	no	no	no	no	no	
58140.84c	138.704	ENDF71x	ENDF/B-VII.1	2006	2500.0	242556	21863	20.0	no	no	no	no	no	
58140.85c	138.704	ENDF71x	ENDF/B-VII.1	2006	0.1	288295	28397	20.0	no	no	no	no	no	
58140.86c	138.704	ENDF71x	ENDF/B-VII.1	2006	250.0	255605	23727	20.0	no	no	no	no	no	
58140.70c	138.704	endf70f	ENDF/B-VII.0	2006	293.6	255021	23640	20	no	no	no	no	no	
58140.71c	138.704	endf70f	ENDF/B-VII.0	2006	600	251406	23124	20	no	no	no	no	no	
58140.72c	138.704	endf70f	ENDF/B-VII.0	2006	900	248466	22704	20	no	no	no	no	no	
58140.73c	138.704	endf70f	ENDF/B-VII.0	2006	1200	246934	22485	20	no	no	no	no	no	
58140.74c	138.704	endf70f	ENDF/B-VII.0	2006	2500	242664	21875	20	no	no	no	no	no	
58140.710nc	138.704	ENDF71x	ENDF/B-VII.1	2006	293.6	254913	23628	20.0	no	no	no	no	no	
58140.711nc	138.704	ENDF71x	ENDF/B-VII.1	2006	600.0	251298	23112	20.0	no	no	no	no	no	
58140.712nc	138.704	ENDF71x	ENDF/B-VII.1	2006	900.0	248358	22692	20.0	no	no	no	no	no	
58140.713nc	138.704	ENDF71x	ENDF/B-VII.1	2006	1200.0	246826	22473	20.0	no	no	no	no	no	
58140.714nc	138.704	ENDF71x	ENDF/B-VII.1	2006	2500.0	242556	21863	20.0	no	no	no	no	no	
58140.715nc	138.704	ENDF71x	ENDF/B-VII.1	2006	0.1	288295	28397	20.0	no	no	no	no	no	
58140.716nc	138.704	ENDF71x	ENDF/B-VII.1	2006	250.0	255605	23727	20.0	no	no	no	no	no	
Ce-141														
58141.80c	139.7	ENDF71x	ENDF/B-VII.1	2006	293.6	91349	2728	20.0	no	no	no	no	yes	
58141.81c	139.7	ENDF71x	ENDF/B-VII.1	2006	600.0	90609	2646	20.0	no	no	no	no	yes	
58141.82c	139.7	ENDF71x	ENDF/B-VII.1	2006	900.0	90231	2604	20.0	no	no	no	no	yes	
58141.83c	139.7	ENDF71x	ENDF/B-VII.1	2006	1200.0	89880	2565	20.0	no	no	no	no	yes	
58141.84c	139.7	ENDF71x	ENDF/B-VII.1	2006	2500.0	88783	2443	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
58141.85c	139.7	ENDF71x	ENDF/B-VII.1	2006	0.1	92694	2886	20.0	no	no	no	no	yes	
58141.86c	139.7	ENDF71x	ENDF/B-VII.1	2006	250.0	91383	2732	20.0	no	no	no	no	yes	
58141.70c	139.7	endf70f	ENDF/B-VII.0	2006	293.6	91442	2771	20	no	no	no	no	yes	
58141.71c	139.7	endf70f	ENDF/B-VII.0	2006	600	90792	2699	20	no	no	no	no	yes	
58141.72c	139.7	endf70f	ENDF/B-VII.0	2006	900	90396	2655	20	no	no	no	no	yes	
58141.73c	139.7	endf70f	ENDF/B-VII.0	2006	1200	89982	2609	20	no	no	no	no	yes	
58141.74c	139.7	endf70f	ENDF/B-VII.0	2006	2500	88939	2493	20	no	no	no	no	yes	
58141.710nc	139.7	ENDF71x	ENDF/B-VII.1	2006	293.6	91349	2728	20.0	no	no	no	no	yes	
58141.711nc	139.7	ENDF71x	ENDF/B-VII.1	2006	600.0	90609	2646	20.0	no	no	no	no	yes	
58141.712nc	139.7	ENDF71x	ENDF/B-VII.1	2006	900.0	90231	2604	20.0	no	no	no	no	yes	
58141.713nc	139.7	ENDF71x	ENDF/B-VII.1	2006	1200.0	89880	2565	20.0	no	no	no	no	yes	
58141.714nc	139.7	ENDF71x	ENDF/B-VII.1	2006	2500.0	88783	2443	20.0	no	no	no	no	yes	
58141.715nc	139.7	ENDF71x	ENDF/B-VII.1	2006	0.1	92694	2886	20.0	no	no	no	no	yes	
58141.716nc	139.7	ENDF71x	ENDF/B-VII.1	2006	250.0	91383	2732	20.0	no	no	no	no	yes	
Ce-142														
58142.80c	140.69	ENDF71x	ENDF/B-VII.1	2006	293.6	109370	8188	20.0	no	no	no	no	yes	
58142.81c	140.69	ENDF71x	ENDF/B-VII.1	2006	600.0	107684	7947	20.0	no	no	no	no	yes	
58142.82c	140.69	ENDF71x	ENDF/B-VII.1	2006	900.0	106906	7836	20.0	no	no	no	no	yes	
58142.83c	140.69	ENDF71x	ENDF/B-VII.1	2006	1200.0	106115	7723	20.0	no	no	no	no	yes	
58142.84c	140.69	ENDF71x	ENDF/B-VII.1	2006	2500.0	104813	7537	20.0	no	no	no	no	yes	
58142.85c	140.69	ENDF71x	ENDF/B-VII.1	2006	0.1	121426	9910	20.0	no	no	no	no	yes	
58142.86c	140.69	ENDF71x	ENDF/B-VII.1	2006	250.0	109643	8227	20.0	no	no	no	no	yes	
58142.70c	140.69	endf70f	ENDF/B-VII.0	2006	293.6	109490	8235	20	no	no	no	no	yes	
58142.71c	140.69	endf70f	ENDF/B-VII.0	2006	600	107804	7994	20	no	no	no	no	yes	
58142.72c	140.69	endf70f	ENDF/B-VII.0	2006	900	107026	7883	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
58142.73c	140.69	endf70f	ENDF/B-VII.0	2006	1200	106235	7770	20	no	no	no	no	yes	
58142.74c	140.69	endf70f	ENDF/B-VII.0	2006	2500	104933	7584	20	no	no	no	no	yes	
58142.710nc	140.69	ENDF71x	ENDF/B-VII.1	2006	293.6	109370	8188	20.0	no	no	no	no	yes	
58142.711nc	140.69	ENDF71x	ENDF/B-VII.1	2006	600.0	107684	7947	20.0	no	no	no	no	yes	
58142.712nc	140.69	ENDF71x	ENDF/B-VII.1	2006	900.0	106906	7836	20.0	no	no	no	no	yes	
58142.713nc	140.69	ENDF71x	ENDF/B-VII.1	2006	1200.0	106115	7723	20.0	no	no	no	no	yes	
58142.714nc	140.69	ENDF71x	ENDF/B-VII.1	2006	2500.0	104813	7537	20.0	no	no	no	no	yes	
58142.715nc	140.69	ENDF71x	ENDF/B-VII.1	2006	0.1	121426	9910	20.0	no	no	no	no	yes	
58142.716nc	140.69	ENDF71x	ENDF/B-VII.1	2006	250.0	109643	8227	20.0	no	no	no	no	yes	
Ce-143														
58143.80c	141.685	ENDF71x	ENDF/B-VII.1	2006	293.6	279599	5109	20.0	yes	no	yes	no	yes	
58143.81c	141.685	ENDF71x	ENDF/B-VII.1	2006	600.0	279335	5076	20.0	yes	no	yes	no	yes	
58143.82c	141.685	ENDF71x	ENDF/B-VII.1	2006	900.0	279175	5056	20.0	yes	no	yes	no	yes	
58143.83c	141.685	ENDF71x	ENDF/B-VII.1	2006	1200.0	279055	5041	20.0	yes	no	yes	no	yes	
58143.84c	141.685	ENDF71x	ENDF/B-VII.1	2006	2500.0	278807	5010	20.0	yes	no	yes	no	yes	
58143.85c	141.685	ENDF71x	ENDF/B-VII.1	2006	0.1	280360	5204	20.0	yes	no	yes	no	yes	
58143.86c	141.685	ENDF71x	ENDF/B-VII.1	2006	250.0	279671	5118	20.0	yes	no	yes	no	yes	
58143.70c	141.685	endf70f	ENDF/B-VII.0	2006	293.6	281621	5236	20	yes	no	yes	no	yes	
58143.71c	141.685	endf70f	ENDF/B-VII.0	2006	600	281357	5203	20	yes	no	yes	no	yes	
58143.72c	141.685	endf70f	ENDF/B-VII.0	2006	900	281197	5183	20	yes	no	yes	no	yes	
58143.73c	141.685	endf70f	ENDF/B-VII.0	2006	1200	281077	5168	20	yes	no	yes	no	yes	
58143.74c	141.685	endf70f	ENDF/B-VII.0	2006	2500	280829	5137	20	yes	no	yes	no	yes	
58143.710nc	141.685	ENDF71x	ENDF/B-VII.1	2006	293.6	279599	5109	20.0	yes	no	yes	no	yes	
58143.711nc	141.685	ENDF71x	ENDF/B-VII.1	2006	600.0	279335	5076	20.0	yes	no	yes	no	yes	
58143.712nc	141.685	ENDF71x	ENDF/B-VII.1	2006	900.0	279175	5056	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
58143.713nc	141.685	ENDF71x	ENDF/B-VII.1	2006	1200.0	279055	5041	20.0	yes	no	yes	no	yes	
58143.714nc	141.685	ENDF71x	ENDF/B-VII.1	2006	2500.0	278807	5010	20.0	yes	no	yes	no	yes	
58143.715nc	141.685	ENDF71x	ENDF/B-VII.1	2006	0.1	280360	5204	20.0	yes	no	yes	no	yes	
58143.716nc	141.685	ENDF71x	ENDF/B-VII.1	2006	250.0	279671	5118	20.0	yes	no	yes	no	yes	
Ce-144														
58144.80c	142.678	ENDF71x	ENDF/B-VII.1	2006	293.6	53528	2381	20.0	no	no	no	no	yes	
58144.81c	142.678	ENDF71x	ENDF/B-VII.1	2006	600.0	53514	2379	20.0	no	no	no	no	yes	
58144.82c	142.678	ENDF71x	ENDF/B-VII.1	2006	900.0	53500	2377	20.0	no	no	no	no	yes	
58144.83c	142.678	ENDF71x	ENDF/B-VII.1	2006	1200.0	53536	2382	20.0	no	no	no	no	yes	
58144.84c	142.678	ENDF71x	ENDF/B-VII.1	2006	2500.0	53564	2386	20.0	no	no	no	no	yes	
58144.85c	142.678	ENDF71x	ENDF/B-VII.1	2006	0.1	53465	2372	20.0	no	no	no	no	yes	
58144.86c	142.678	ENDF71x	ENDF/B-VII.1	2006	250.0	53523	2380	20.0	no	no	no	no	yes	
58144.70c	142.678	endf70f	ENDF/B-VII.0	2006	293.6	52842	2420	20	no	no	no	no	yes	
58144.71c	142.678	endf70f	ENDF/B-VII.0	2006	600	52828	2418	20	no	no	no	no	yes	
58144.72c	142.678	endf70f	ENDF/B-VII.0	2006	900	52814	2416	20	no	no	no	no	yes	
58144.73c	142.678	endf70f	ENDF/B-VII.0	2006	1200	52850	2421	20	no	no	no	no	yes	
58144.74c	142.678	endf70f	ENDF/B-VII.0	2006	2500	52878	2425	20	no	no	no	no	yes	
58144.710nc	142.678	ENDF71x	ENDF/B-VII.1	2006	293.6	53528	2381	20.0	no	no	no	no	yes	
58144.711nc	142.678	ENDF71x	ENDF/B-VII.1	2006	600.0	53514	2379	20.0	no	no	no	no	yes	
58144.712nc	142.678	ENDF71x	ENDF/B-VII.1	2006	900.0	53500	2377	20.0	no	no	no	no	yes	
58144.713nc	142.678	ENDF71x	ENDF/B-VII.1	2006	1200.0	53536	2382	20.0	no	no	no	no	yes	
58144.714nc	142.678	ENDF71x	ENDF/B-VII.1	2006	2500.0	53564	2386	20.0	no	no	no	no	yes	
58144.715nc	142.678	ENDF71x	ENDF/B-VII.1	2006	0.1	53465	2372	20.0	no	no	no	no	yes	
58144.716nc	142.678	ENDF71x	ENDF/B-VII.1	2006	250.0	53523	2380	20.0	no	no	no	no	yes	
				Z = 59, praseodymium										

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
Pr-141														
59141.80c	139.697	ENDF71x	ENDF/B-VII.1	2006	293.6	394978	26001	20.0	yes	no	yes	no	yes	
59141.81c	139.697	ENDF71x	ENDF/B-VII.1	2006	600.0	382857	24486	20.0	yes	no	yes	no	yes	
59141.82c	139.697	ENDF71x	ENDF/B-VII.1	2006	900.0	374354	23423	20.0	yes	no	yes	no	yes	
59141.83c	139.697	ENDF71x	ENDF/B-VII.1	2006	1200.0	368169	22650	20.0	yes	no	yes	no	yes	
59141.84c	139.697	ENDF71x	ENDF/B-VII.1	2006	2500.0	351481	20564	20.0	yes	no	yes	no	yes	
59141.85c	139.697	ENDF71x	ENDF/B-VII.1	2006	0.1	473322	35794	20.0	yes	no	yes	no	yes	
59141.86c	139.697	ENDF71x	ENDF/B-VII.1	2006	250.0	396658	26211	20.0	yes	no	yes	no	yes	
59141.70c	139.697	endf70f	ENDF/B-VII.0	2006	293.6	397172	26077	20	yes	no	yes	no	yes	
59141.71c	139.697	endf70f	ENDF/B-VII.0	2006	600	385051	24562	20	yes	no	yes	no	yes	
59141.72c	139.697	endf70f	ENDF/B-VII.0	2006	900	376548	23499	20	yes	no	yes	no	yes	
59141.73c	139.697	endf70f	ENDF/B-VII.0	2006	1200	370363	22726	20	yes	no	yes	no	yes	
59141.74c	139.697	endf70f	ENDF/B-VII.0	2006	2500	353675	20640	20	yes	no	yes	no	yes	
59141.50c	139.697	kidman	ENDF/B-V.0	1980	293.6	15620	1354	20	no	no	no	no	no	
59141.710nc	139.697	ENDF71x	ENDF/B-VII.1	2006	293.6	394978	26001	20.0	yes	no	yes	no	yes	
59141.711nc	139.697	ENDF71x	ENDF/B-VII.1	2006	600.0	382857	24486	20.0	yes	no	yes	no	yes	
59141.712nc	139.697	ENDF71x	ENDF/B-VII.1	2006	900.0	374354	23423	20.0	yes	no	yes	no	yes	
59141.713nc	139.697	ENDF71x	ENDF/B-VII.1	2006	1200.0	368169	22650	20.0	yes	no	yes	no	yes	
59141.714nc	139.697	ENDF71x	ENDF/B-VII.1	2006	2500.0	351481	20564	20.0	yes	no	yes	no	yes	
59141.715nc	139.697	ENDF71x	ENDF/B-VII.1	2006	0.1	473322	35794	20.0	yes	no	yes	no	yes	
59141.716nc	139.697	ENDF71x	ENDF/B-VII.1	2006	250.0	396658	26211	20.0	yes	no	yes	no	yes	
Pr-142														
59142.80c	140.691	ENDF71x	ENDF/B-VII.1	2006	293.6	585127	7572	20.0	yes	no	yes	no	yes	
59142.81c	140.691	ENDF71x	ENDF/B-VII.1	2006	600.0	584919	7546	20.0	yes	no	yes	no	yes	
59142.82c	140.691	ENDF71x	ENDF/B-VII.1	2006	900.0	584839	7536	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
59142.83c	140.691	ENDF71x	ENDF/B-VII.1	2006	1200.0	584616	7508	20.0	yes	no	yes	no	yes	
59142.84c	140.691	ENDF71x	ENDF/B-VII.1	2006	2500.0	584143	7449	20.0	yes	no	yes	no	yes	
59142.85c	140.691	ENDF71x	ENDF/B-VII.1	2006	0.1	585944	7674	20.0	yes	no	yes	no	yes	
59142.86c	140.691	ENDF71x	ENDF/B-VII.1	2006	250.0	585192	7580	20.0	yes	no	yes	no	yes	
59142.70c	140.691	endf70f	ENDF/B-VII.0	2006	293.6	591178	7692	20	yes	no	yes	no	yes	
59142.71c	140.691	endf70f	ENDF/B-VII.0	2006	600	590970	7666	20	yes	no	yes	no	yes	
59142.72c	140.691	endf70f	ENDF/B-VII.0	2006	900	590890	7656	20	yes	no	yes	no	yes	
59142.73c	140.691	endf70f	ENDF/B-VII.0	2006	1200	590667	7628	20	yes	no	yes	no	yes	
59142.74c	140.691	endf70f	ENDF/B-VII.0	2006	2500	590194	7569	20	yes	no	yes	no	yes	
59142.710nc	140.691	ENDF71x	ENDF/B-VII.1	2006	293.6	585127	7572	20.0	yes	no	yes	no	yes	
59142.711nc	140.691	ENDF71x	ENDF/B-VII.1	2006	600.0	584919	7546	20.0	yes	no	yes	no	yes	
59142.712nc	140.691	ENDF71x	ENDF/B-VII.1	2006	900.0	584839	7536	20.0	yes	no	yes	no	yes	
59142.713nc	140.691	ENDF71x	ENDF/B-VII.1	2006	1200.0	584616	7508	20.0	yes	no	yes	no	yes	
59142.714nc	140.691	ENDF71x	ENDF/B-VII.1	2006	2500.0	584143	7449	20.0	yes	no	yes	no	yes	
59142.715nc	140.691	ENDF71x	ENDF/B-VII.1	2006	0.1	585944	7674	20.0	yes	no	yes	no	yes	
59142.716nc	140.691	ENDF71x	ENDF/B-VII.1	2006	250.0	585192	7580	20.0	yes	no	yes	no	yes	
Pr-143														
59143.80c	141.683	ENDF71x	ENDF/B-VII.1	2006	293.6	84751	3642	20.0	no	no	no	no	yes	
59143.81c	141.683	ENDF71x	ENDF/B-VII.1	2006	600.0	84534	3611	20.0	no	no	no	no	yes	
59143.82c	141.683	ENDF71x	ENDF/B-VII.1	2006	900.0	84430	3596	20.0	no	no	no	no	yes	
59143.83c	141.683	ENDF71x	ENDF/B-VII.1	2006	1200.0	84330	3582	20.0	no	no	no	no	yes	
59143.84c	141.683	ENDF71x	ENDF/B-VII.1	2006	2500.0	84078	3546	20.0	no	no	no	no	yes	
59143.85c	141.683	ENDF71x	ENDF/B-VII.1	2006	0.1	85144	3698	20.0	no	no	no	no	yes	
59143.86c	141.683	ENDF71x	ENDF/B-VII.1	2006	250.0	84801	3649	20.0	no	no	no	no	yes	
59143.70c	141.683	endf70f	ENDF/B-VII.0	2006	293.6	81771	3671	20	no	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
59143.71c	141.683	endf70f	ENDF/B-VII.0	2006	600	81554	3640	20	no	no	no	no	no	
59143.72c	141.683	endf70f	ENDF/B-VII.0	2006	900	81450	3625	20	no	no	no	no	no	
59143.73c	141.683	endf70f	ENDF/B-VII.0	2006	1200	81350	3611	20	no	no	no	no	no	
59143.74c	141.683	endf70f	ENDF/B-VII.0	2006	2500	81098	3575	20	no	no	no	no	no	
59143.710nc	141.683	ENDF71x	ENDF/B-VII.1	2006	293.6	84751	3642	20.0	no	no	no	no	yes	
59143.711nc	141.683	ENDF71x	ENDF/B-VII.1	2006	600.0	84534	3611	20.0	no	no	no	no	yes	
59143.712nc	141.683	ENDF71x	ENDF/B-VII.1	2006	900.0	84430	3596	20.0	no	no	no	no	yes	
59143.713nc	141.683	ENDF71x	ENDF/B-VII.1	2006	1200.0	84330	3582	20.0	no	no	no	no	yes	
59143.714nc	141.683	ENDF71x	ENDF/B-VII.1	2006	2500.0	84078	3546	20.0	no	no	no	no	yes	
59143.715nc	141.683	ENDF71x	ENDF/B-VII.1	2006	0.1	85144	3698	20.0	no	no	no	no	yes	
59143.716nc	141.683	ENDF71x	ENDF/B-VII.1	2006	250.0	84801	3649	20.0	no	no	no	no	yes	
			Z = 60, neodymium											
Nd-142														
60142.80c	140.689	ENDF71x	ENDF/B-VII.1	2006	293.6	324922	12617	20.0	yes	no	yes	no	yes	
60142.81c	140.689	ENDF71x	ENDF/B-VII.1	2006	600.0	321634	12206	20.0	yes	no	yes	no	yes	
60142.82c	140.689	ENDF71x	ENDF/B-VII.1	2006	900.0	319738	11969	20.0	yes	no	yes	no	yes	
60142.83c	140.689	ENDF71x	ENDF/B-VII.1	2006	1200.0	318706	11840	20.0	yes	no	yes	no	yes	
60142.84c	140.689	ENDF71x	ENDF/B-VII.1	2006	2500.0	314930	11368	20.0	yes	no	yes	no	yes	
60142.85c	140.689	ENDF71x	ENDF/B-VII.1	2006	0.1	352747	16095	20.0	yes	no	yes	no	yes	
60142.86c	140.689	ENDF71x	ENDF/B-VII.1	2006	250.0	325426	12680	20.0	yes	no	yes	no	yes	
60142.70c	140.689	endf70g	ENDF/B-VII.0	2006	293.6	325897	12679	20	yes	no	yes	no	yes	
60142.71c	140.689	endf70g	ENDF/B-VII.0	2006	600	322609	12268	20	yes	no	yes	no	yes	
60142.72c	140.689	endf70g	ENDF/B-VII.0	2006	900	320713	12031	20	yes	no	yes	no	yes	
60142.73c	140.689	endf70g	ENDF/B-VII.0	2006	1200	319681	11902	20	yes	no	yes	no	yes	
60142.74c	140.689	endf70g	ENDF/B-VII.0	2006	2500	315905	11430	20	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
60142.710nc	140.689	ENDF71x	ENDF/B-VII.1	2006	293.6	324922	12617	20.0	yes	no	yes	no	yes	
60142.711nc	140.689	ENDF71x	ENDF/B-VII.1	2006	600.0	321634	12206	20.0	yes	no	yes	no	yes	
60142.712nc	140.689	ENDF71x	ENDF/B-VII.1	2006	900.0	319738	11969	20.0	yes	no	yes	no	yes	
60142.713nc	140.689	ENDF71x	ENDF/B-VII.1	2006	1200.0	318706	11840	20.0	yes	no	yes	no	yes	
60142.714nc	140.689	ENDF71x	ENDF/B-VII.1	2006	2500.0	314930	11368	20.0	yes	no	yes	no	yes	
60142.715nc	140.689	ENDF71x	ENDF/B-VII.1	2006	0.1	352747	16095	20.0	yes	no	yes	no	yes	
60142.716nc	140.689	ENDF71x	ENDF/B-VII.1	2006	250.0	325426	12680	20.0	yes	no	yes	no	yes	
Nd-143														
60143.80c	141.682	ENDF71x	ENDF/B-VII.1	2006	293.6	466861	25705	20.0	yes	no	yes	no	yes	
60143.81c	141.682	ENDF71x	ENDF/B-VII.1	2006	600.0	452040	24223	20.0	yes	no	yes	no	yes	
60143.82c	141.682	ENDF71x	ENDF/B-VII.1	2006	900.0	442120	23231	20.0	yes	no	yes	no	yes	
60143.83c	141.682	ENDF71x	ENDF/B-VII.1	2006	1200.0	434020	22421	20.0	yes	no	yes	no	yes	
60143.84c	141.682	ENDF71x	ENDF/B-VII.1	2006	2500.0	412851	20304	20.0	yes	no	yes	no	yes	
60143.85c	141.682	ENDF71x	ENDF/B-VII.1	2006	0.1	537281	32747	20.0	yes	no	yes	no	yes	
60143.86c	141.682	ENDF71x	ENDF/B-VII.1	2006	250.0	469761	25995	20.0	yes	no	yes	no	yes	
60143.70c	141.682	endf70g	ENDF/B-VII.0	2006	293.6	468788	25770	20	yes	no	yes	no	yes	
60143.71c	141.682	endf70g	ENDF/B-VII.0	2006	600	453967	24288	20	yes	no	yes	no	yes	
60143.72c	141.682	endf70g	ENDF/B-VII.0	2006	900	444047	23296	20	yes	no	yes	no	yes	
60143.73c	141.682	endf70g	ENDF/B-VII.0	2006	1200	435947	22486	20	yes	no	yes	no	yes	
60143.74c	141.682	endf70g	ENDF/B-VII.0	2006	2500	414778	20369	20	yes	no	yes	no	yes	
60143.50c	141.682	kidman	ENDF/B-V.0	1980	293.6	17216	1701	20	no	no	no	no	no	
60143.710nc	141.682	ENDF71x	ENDF/B-VII.1	2006	293.6	466861	25705	20.0	yes	no	yes	no	yes	
60143.711nc	141.682	ENDF71x	ENDF/B-VII.1	2006	600.0	452040	24223	20.0	yes	no	yes	no	yes	
60143.712nc	141.682	ENDF71x	ENDF/B-VII.1	2006	900.0	442120	23231	20.0	yes	no	yes	no	yes	
60143.713nc	141.682	ENDF71x	ENDF/B-VII.1	2006	1200.0	434020	22421	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
60143.714nc	141.682	ENDF71x	ENDF/B-VII.1	2006	2500.0	412851	20304	20.0	yes	no	yes	no	yes	
60143.715nc	141.682	ENDF71x	ENDF/B-VII.1	2006	0.1	537281	32747	20.0	yes	no	yes	no	yes	
60143.716nc	141.682	ENDF71x	ENDF/B-VII.1	2006	250.0	469761	25995	20.0	yes	no	yes	no	yes	
Nd-144														
60144.80c	142.674	ENDF71x	ENDF/B-VII.1	2006	293.6	323566	9873	20.0	yes	no	yes	no	yes	
60144.81c	142.674	ENDF71x	ENDF/B-VII.1	2006	600.0	321118	9567	20.0	yes	no	yes	no	yes	
60144.82c	142.674	ENDF71x	ENDF/B-VII.1	2006	900.0	319062	9310	20.0	yes	no	yes	no	yes	
60144.83c	142.674	ENDF71x	ENDF/B-VII.1	2006	1200.0	318086	9188	20.0	yes	no	yes	no	yes	
60144.84c	142.674	ENDF71x	ENDF/B-VII.1	2006	2500.0	314751	8771	20.0	yes	no	yes	no	yes	
60144.85c	142.674	ENDF71x	ENDF/B-VII.1	2006	0.1	344150	12446	20.0	yes	no	yes	no	yes	
60144.86c	142.674	ENDF71x	ENDF/B-VII.1	2006	250.0	324031	9931	20.0	yes	no	yes	no	yes	
60144.70c	142.674	endf70g	ENDF/B-VII.0	2006	293.6	322390	9953	20	yes	no	yes	no	no	
60144.71c	142.674	endf70g	ENDF/B-VII.0	2006	600	319942	9647	20	yes	no	yes	no	no	
60144.72c	142.674	endf70g	ENDF/B-VII.0	2006	900	317886	9390	20	yes	no	yes	no	no	
60144.73c	142.674	endf70g	ENDF/B-VII.0	2006	1200	316910	9268	20	yes	no	yes	no	no	
60144.74c	142.674	endf70g	ENDF/B-VII.0	2006	2500	313575	8851	20	yes	no	yes	no	no	
60144.710nc	142.674	ENDF71x	ENDF/B-VII.1	2006	293.6	323566	9873	20.0	yes	no	yes	no	yes	
60144.711nc	142.674	ENDF71x	ENDF/B-VII.1	2006	600.0	321118	9567	20.0	yes	no	yes	no	yes	
60144.712nc	142.674	ENDF71x	ENDF/B-VII.1	2006	900.0	319062	9310	20.0	yes	no	yes	no	yes	
60144.713nc	142.674	ENDF71x	ENDF/B-VII.1	2006	1200.0	318086	9188	20.0	yes	no	yes	no	yes	
60144.714nc	142.674	ENDF71x	ENDF/B-VII.1	2006	2500.0	314751	8771	20.0	yes	no	yes	no	yes	
60144.715nc	142.674	ENDF71x	ENDF/B-VII.1	2006	0.1	344150	12446	20.0	yes	no	yes	no	yes	
60144.716nc	142.674	ENDF71x	ENDF/B-VII.1	2006	250.0	324031	9931	20.0	yes	no	yes	no	yes	
Nd-145														
60145.80c	143.668	ENDF71x	ENDF/B-VII.1	2006	293.6	519884	30833	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
60145.81c	143.668	ENDF71x	ENDF/B-VII.1	2006	600.0	495024	28347	20.0	yes	no	yes	no	yes	
60145.82c	143.668	ENDF71x	ENDF/B-VII.1	2006	900.0	478964	26741	20.0	yes	no	yes	no	yes	
60145.83c	143.668	ENDF71x	ENDF/B-VII.1	2006	1200.0	467474	25592	20.0	yes	no	yes	no	yes	
60145.84c	143.668	ENDF71x	ENDF/B-VII.1	2006	2500.0	434625	22307	20.0	yes	no	yes	no	yes	
60145.85c	143.668	ENDF71x	ENDF/B-VII.1	2006	0.1	620634	40908	20.0	yes	no	yes	no	yes	
60145.86c	143.668	ENDF71x	ENDF/B-VII.1	2006	250.0	524784	31323	20.0	yes	no	yes	no	yes	
60145.70c	143.668	endf70g	ENDF/B-VII.0	2006	293.6	570184	35882	20	yes	no	yes	no	yes	
60145.71c	143.668	endf70g	ENDF/B-VII.0	2006	600	540714	32935	20	yes	no	yes	no	yes	
60145.72c	143.668	endf70g	ENDF/B-VII.0	2006	900	522944	31158	20	yes	no	yes	no	yes	
60145.73c	143.668	endf70g	ENDF/B-VII.0	2006	1200	507854	29649	20	yes	no	yes	no	yes	
60145.74c	143.668	endf70g	ENDF/B-VII.0	2006	2500	470415	25905	20	yes	no	yes	no	yes	
60145.50c	143.668	kidman	ENDF/B-V.0	1980	293.6	38473	3985	20	no	no	no	no	no	
60145.710nc	143.668	ENDF71x	ENDF/B-VII.1	2006	293.6	519884	30833	20.0	yes	no	yes	no	yes	
60145.711nc	143.668	ENDF71x	ENDF/B-VII.1	2006	600.0	495024	28347	20.0	yes	no	yes	no	yes	
60145.712nc	143.668	ENDF71x	ENDF/B-VII.1	2006	900.0	478964	26741	20.0	yes	no	yes	no	yes	
60145.713nc	143.668	ENDF71x	ENDF/B-VII.1	2006	1200.0	467474	25592	20.0	yes	no	yes	no	yes	
60145.714nc	143.668	ENDF71x	ENDF/B-VII.1	2006	2500.0	434625	22307	20.0	yes	no	yes	no	yes	
60145.715nc	143.668	ENDF71x	ENDF/B-VII.1	2006	0.1	620634	40908	20.0	yes	no	yes	no	yes	
60145.716nc	143.668	ENDF71x	ENDF/B-VII.1	2006	250.0	524784	31323	20.0	yes	no	yes	no	yes	
Nd-146														
60146.80c	144.66	ENDF71x	ENDF/B-VII.1	2006	293.6	303887	10179	20.0	yes	no	yes	no	yes	
60146.81c	144.66	ENDF71x	ENDF/B-VII.1	2006	600.0	301903	9931	20.0	yes	no	yes	no	yes	
60146.82c	144.66	ENDF71x	ENDF/B-VII.1	2006	900.0	299943	9686	20.0	yes	no	yes	no	yes	
60146.83c	144.66	ENDF71x	ENDF/B-VII.1	2006	1200.0	298431	9497	20.0	yes	no	yes	no	yes	
60146.84c	144.66	ENDF71x	ENDF/B-VII.1	2006	2500.0	295615	9145	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
60146.85c	144.66	ENDF71x	ENDF/B-VII.1	2006	0.1	324967	12814	20.0	yes	no	yes	no	yes	
60146.86c	144.66	ENDF71x	ENDF/B-VII.1	2006	250.0	304479	10253	20.0	yes	no	yes	no	yes	
60146.70c	144.66	endf70g	ENDF/B-VII.0	2006	293.6	305007	10274	20	yes	no	yes	no	yes	
60146.71c	144.66	endf70g	ENDF/B-VII.0	2006	600	303023	10026	20	yes	no	yes	no	yes	
60146.72c	144.66	endf70g	ENDF/B-VII.0	2006	900	301063	9781	20	yes	no	yes	no	yes	
60146.73c	144.66	endf70g	ENDF/B-VII.0	2006	1200	299551	9592	20	yes	no	yes	no	yes	
60146.74c	144.66	endf70g	ENDF/B-VII.0	2006	2500	296735	9240	20	yes	no	yes	no	yes	
60146.710nc	144.66	ENDF71x	ENDF/B-VII.1	2006	293.6	303887	10179	20.0	yes	no	yes	no	yes	
60146.711nc	144.66	ENDF71x	ENDF/B-VII.1	2006	600.0	301903	9931	20.0	yes	no	yes	no	yes	
60146.712nc	144.66	ENDF71x	ENDF/B-VII.1	2006	900.0	299943	9686	20.0	yes	no	yes	no	yes	
60146.713nc	144.66	ENDF71x	ENDF/B-VII.1	2006	1200.0	298431	9497	20.0	yes	no	yes	no	yes	
60146.714nc	144.66	ENDF71x	ENDF/B-VII.1	2006	2500.0	295615	9145	20.0	yes	no	yes	no	yes	
60146.715nc	144.66	ENDF71x	ENDF/B-VII.1	2006	0.1	324967	12814	20.0	yes	no	yes	no	yes	
60146.716nc	144.66	ENDF71x	ENDF/B-VII.1	2006	250.0	304479	10253	20.0	yes	no	yes	no	yes	
Nd-147														
60147.80c	145.654	ENDF71x	ENDF/B-VII.1	2006	293.6	274229	3818	20.0	yes	no	yes	no	yes	
60147.81c	145.654	ENDF71x	ENDF/B-VII.1	2006	600.0	272733	3631	20.0	yes	no	yes	no	yes	
60147.82c	145.654	ENDF71x	ENDF/B-VII.1	2006	900.0	271966	3535	20.0	yes	no	yes	no	yes	
60147.83c	145.654	ENDF71x	ENDF/B-VII.1	2006	1200.0	271589	3488	20.0	yes	no	yes	no	yes	
60147.84c	145.654	ENDF71x	ENDF/B-VII.1	2006	2500.0	269942	3282	20.0	yes	no	yes	no	yes	
60147.85c	145.654	ENDF71x	ENDF/B-VII.1	2006	0.1	276797	4139	20.0	yes	no	yes	no	yes	
60147.86c	145.654	ENDF71x	ENDF/B-VII.1	2006	250.0	274661	3872	20.0	yes	no	yes	no	yes	
60147.70c	145.654	endf70g	ENDF/B-VII.0	2006	293.6	275998	3951	20	yes	no	yes	no	yes	
60147.71c	145.654	endf70g	ENDF/B-VII.0	2006	600	274502	3764	20	yes	no	yes	no	yes	
60147.72c	145.654	endf70g	ENDF/B-VII.0	2006	900	273735	3668	20	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
60147.73c	145.654	endf70g	ENDF/B-VII.0	2006	1200	273358	3621	20	yes	no	yes	no	yes	
60147.74c	145.654	endf70g	ENDF/B-VII.0	2006	2500	271711	3415	20	yes	no	yes	no	yes	
60147.50c	145.654	kidman	ENDF/B-V.0	1979	293.6	1816	251	20	no	no	no	no	no	
60147.710nc	145.654	ENDF71x	ENDF/B-VII.1	2006	293.6	274229	3818	20.0	yes	no	yes	no	yes	
60147.711nc	145.654	ENDF71x	ENDF/B-VII.1	2006	600.0	272733	3631	20.0	yes	no	yes	no	yes	
60147.712nc	145.654	ENDF71x	ENDF/B-VII.1	2006	900.0	271966	3535	20.0	yes	no	yes	no	yes	
60147.713nc	145.654	ENDF71x	ENDF/B-VII.1	2006	1200.0	271589	3488	20.0	yes	no	yes	no	yes	
60147.714nc	145.654	ENDF71x	ENDF/B-VII.1	2006	2500.0	269942	3282	20.0	yes	no	yes	no	yes	
60147.715nc	145.654	ENDF71x	ENDF/B-VII.1	2006	0.1	276797	4139	20.0	yes	no	yes	no	yes	
60147.716nc	145.654	ENDF71x	ENDF/B-VII.1	2006	250.0	274661	3872	20.0	yes	no	yes	no	yes	
Nd-148														
60148.80c	146.646	ENDF71x	ENDF/B-VII.1	2006	293.6	367145	19206	20.0	yes	no	yes	no	yes	
60148.81c	146.646	ENDF71x	ENDF/B-VII.1	2006	600.0	360328	18354	20.0	yes	no	yes	no	yes	
60148.82c	146.646	ENDF71x	ENDF/B-VII.1	2006	900.0	356360	17858	20.0	yes	no	yes	no	yes	
60148.83c	146.646	ENDF71x	ENDF/B-VII.1	2006	1200.0	353224	17466	20.0	yes	no	yes	no	yes	
60148.84c	146.646	ENDF71x	ENDF/B-VII.1	2006	2500.0	344121	16328	20.0	yes	no	yes	no	yes	
60148.85c	146.646	ENDF71x	ENDF/B-VII.1	2006	0.1	413809	25039	20.0	yes	no	yes	no	yes	
60148.86c	146.646	ENDF71x	ENDF/B-VII.1	2006	250.0	368176	19335	20.0	yes	no	yes	no	yes	
60148.70c	146.646	endf70g	ENDF/B-VII.0	2006	293.6	367463	19283	20	yes	no	yes	no	yes	
60148.71c	146.646	endf70g	ENDF/B-VII.0	2006	600	360646	18431	20	yes	no	yes	no	yes	
60148.72c	146.646	endf70g	ENDF/B-VII.0	2006	900	356678	17935	20	yes	no	yes	no	yes	
60148.73c	146.646	endf70g	ENDF/B-VII.0	2006	1200	353542	17543	20	yes	no	yes	no	yes	
60148.74c	146.646	endf70g	ENDF/B-VII.0	2006	2500	344439	16405	20	yes	no	yes	no	yes	
60148.50c	146.646	kidman	ENDF/B-V.0	1980	293.6	10867	1054	20	no	no	no	no	no	
60148.710nc	146.646	ENDF71x	ENDF/B-VII.1	2006	293.6	367145	19206	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
60148.711nc	146.646	ENDF71x	ENDF/B-VII.1	2006	600.0	360328	18354	20.0	yes	no	yes	no	yes	
60148.712nc	146.646	ENDF71x	ENDF/B-VII.1	2006	900.0	356360	17858	20.0	yes	no	yes	no	yes	
60148.713nc	146.646	ENDF71x	ENDF/B-VII.1	2006	1200.0	353224	17466	20.0	yes	no	yes	no	yes	
60148.714nc	146.646	ENDF71x	ENDF/B-VII.1	2006	2500.0	344121	16328	20.0	yes	no	yes	no	yes	
60148.715nc	146.646	ENDF71x	ENDF/B-VII.1	2006	0.1	413809	25039	20.0	yes	no	yes	no	yes	
60148.716nc	146.646	ENDF71x	ENDF/B-VII.1	2006	250.0	368176	19335	20.0	yes	no	yes	no	yes	
Nd-150														
60150.80c	148.633	ENDF71x	ENDF/B-VII.1	2006	293.6	332592	18322	20.0	yes	no	yes	no	yes	
60150.81c	148.633	ENDF71x	ENDF/B-VII.1	2006	600.0	326392	17547	20.0	yes	no	yes	no	yes	
60150.82c	148.633	ENDF71x	ENDF/B-VII.1	2006	900.0	322128	17014	20.0	yes	no	yes	no	yes	
60150.83c	148.633	ENDF71x	ENDF/B-VII.1	2006	1200.0	319160	16643	20.0	yes	no	yes	no	yes	
60150.84c	148.633	ENDF71x	ENDF/B-VII.1	2006	2500.0	312208	15774	20.0	yes	no	yes	no	yes	
60150.85c	148.633	ENDF71x	ENDF/B-VII.1	2006	0.1	362536	22065	20.0	yes	no	yes	no	yes	
60150.86c	148.633	ENDF71x	ENDF/B-VII.1	2006	250.0	333808	18474	20.0	yes	no	yes	no	yes	
60150.70c	148.633	endf70g	ENDF/B-VII.0	2006	293.6	333376	18383	20	yes	no	yes	no	yes	
60150.71c	148.633	endf70g	ENDF/B-VII.0	2006	600	327176	17608	20	yes	no	yes	no	yes	
60150.72c	148.633	endf70g	ENDF/B-VII.0	2006	900	322912	17075	20	yes	no	yes	no	yes	
60150.73c	148.633	endf70g	ENDF/B-VII.0	2006	1200	319944	16704	20	yes	no	yes	no	yes	
60150.74c	148.633	endf70g	ENDF/B-VII.0	2006	2500	312992	15835	20	yes	no	yes	no	yes	
60150.710nc	148.633	ENDF71x	ENDF/B-VII.1	2006	293.6	332592	18322	20.0	yes	no	yes	no	yes	
60150.711nc	148.633	ENDF71x	ENDF/B-VII.1	2006	600.0	326392	17547	20.0	yes	no	yes	no	yes	
60150.712nc	148.633	ENDF71x	ENDF/B-VII.1	2006	900.0	322128	17014	20.0	yes	no	yes	no	yes	
60150.713nc	148.633	ENDF71x	ENDF/B-VII.1	2006	1200.0	319160	16643	20.0	yes	no	yes	no	yes	
60150.714nc	148.633	ENDF71x	ENDF/B-VII.1	2006	2500.0	312208	15774	20.0	yes	no	yes	no	yes	
60150.715nc	148.633	ENDF71x	ENDF/B-VII.1	2006	0.1	362536	22065	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
60150.716nc	148.633	ENDF71x	ENDF/B-VII.1	2006	250.0	333808	18474	20.0	yes	no	yes	no	yes	

Z = 61, promethium

Pm-147

61147.80c	145.653	ENDF71x	ENDF/B-VII.1	2006	293.6	100676	7296	20.0	no	no	no	no	yes	
61147.81c	145.653	ENDF71x	ENDF/B-VII.1	2006	600.0	97560	6851	20.0	no	no	no	no	yes	
61147.82c	145.653	ENDF71x	ENDF/B-VII.1	2006	900.0	96223	6660	20.0	no	no	no	no	yes	
61147.83c	145.653	ENDF71x	ENDF/B-VII.1	2006	1200.0	95200	6514	20.0	no	no	no	no	yes	
61147.84c	145.653	ENDF71x	ENDF/B-VII.1	2006	2500.0	91254	5950	20.0	no	no	no	no	yes	
61147.85c	145.653	ENDF71x	ENDF/B-VII.1	2006	0.1	109593	8570	20.0	no	no	no	no	yes	
61147.86c	145.653	ENDF71x	ENDF/B-VII.1	2006	250.0	101332	7390	20.0	no	no	no	no	yes	
61147.70c	145.653	endf70g	ENDF/B-VII.0	2006	293.6	100146	7325	20	no	no	no	no	yes	
61147.71c	145.653	endf70g	ENDF/B-VII.0	2006	600	97030	6880	20	no	no	no	no	yes	
61147.72c	145.653	endf70g	ENDF/B-VII.0	2006	900	95693	6689	20	no	no	no	no	yes	
61147.73c	145.653	endf70g	ENDF/B-VII.0	2006	1200	94670	6543	20	no	no	no	no	yes	
61147.74c	145.653	endf70g	ENDF/B-VII.0	2006	2500	90724	5979	20	no	no	no	no	yes	
61147.50c	145.653	kidman	ENDF/B-V.0	1980	293.6	9152	825	20	no	no	no	no	no	
61147.710nc	145.653	ENDF71x	ENDF/B-VII.1	2006	293.6	100676	7296	20.0	no	no	no	no	yes	
61147.711nc	145.653	ENDF71x	ENDF/B-VII.1	2006	600.0	97560	6851	20.0	no	no	no	no	yes	
61147.712nc	145.653	ENDF71x	ENDF/B-VII.1	2006	900.0	96223	6660	20.0	no	no	no	no	yes	
61147.713nc	145.653	ENDF71x	ENDF/B-VII.1	2006	1200.0	95200	6514	20.0	no	no	no	no	yes	
61147.714nc	145.653	ENDF71x	ENDF/B-VII.1	2006	2500.0	91254	5950	20.0	no	no	no	no	yes	
61147.715nc	145.653	ENDF71x	ENDF/B-VII.1	2006	0.1	109593	8570	20.0	no	no	no	no	yes	
61147.716nc	145.653	ENDF71x	ENDF/B-VII.1	2006	250.0	101332	7390	20.0	no	no	no	no	yes	

Pm-148

61148.80c	146.646	ENDF71x	ENDF/B-VII.1	2006	293.6	62174	2567	20.0	no	no	no	no	yes	

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
61148.81c	146.646	ENDF71x	ENDF/B-VII.1	2006	600.0	62160	2565	20.0	no	no	no	no	yes	
61148.82c	146.646	ENDF71x	ENDF/B-VII.1	2006	900.0	62181	2568	20.0	no	no	no	no	yes	
61148.83c	146.646	ENDF71x	ENDF/B-VII.1	2006	1200.0	62154	2564	20.0	no	no	no	no	yes	
61148.84c	146.646	ENDF71x	ENDF/B-VII.1	2006	2500.0	62134	2561	20.0	no	no	no	no	yes	
61148.85c	146.646	ENDF71x	ENDF/B-VII.1	2006	0.1	62195	2570	20.0	no	no	no	no	yes	
61148.86c	146.646	ENDF71x	ENDF/B-VII.1	2006	250.0	62190	2569	20.0	no	no	no	no	yes	
61148.70c	146.646	endf70g	ENDF/B-VII.0	2006	293.6	57202	2603	20	no	no	no	no	no	
61148.71c	146.646	endf70g	ENDF/B-VII.0	2006	600	57188	2601	20	no	no	no	no	no	
61148.72c	146.646	endf70g	ENDF/B-VII.0	2006	900	57209	2604	20	no	no	no	no	no	
61148.73c	146.646	endf70g	ENDF/B-VII.0	2006	1200	57182	2600	20	no	no	no	no	no	
61148.74c	146.646	endf70g	ENDF/B-VII.0	2006	2500	57162	2597	20	no	no	no	no	no	
61148.50c	146.647	kidman	ENDF/B-V.0	1979	293.6	1643	257	20	no	no	no	no	no	
61148.710nc	146.646	ENDF71x	ENDF/B-VII.1	2006	293.6	62174	2567	20.0	no	no	no	no	yes	
61148.711nc	146.646	ENDF71x	ENDF/B-VII.1	2006	600.0	62160	2565	20.0	no	no	no	no	yes	
61148.712nc	146.646	ENDF71x	ENDF/B-VII.1	2006	900.0	62181	2568	20.0	no	no	no	no	yes	
61148.713nc	146.646	ENDF71x	ENDF/B-VII.1	2006	1200.0	62154	2564	20.0	no	no	no	no	yes	
61148.714nc	146.646	ENDF71x	ENDF/B-VII.1	2006	2500.0	62134	2561	20.0	no	no	no	no	yes	
61148.715nc	146.646	ENDF71x	ENDF/B-VII.1	2006	0.1	62195	2570	20.0	no	no	no	no	yes	
61148.716nc	146.646	ENDF71x	ENDF/B-VII.1	2006	250.0	62190	2569	20.0	no	no	no	no	yes	
Pm-149														
61149.80c	147.639	ENDF71x	ENDF/B-VII.1	2006	293.6	82092	2513	20.0	no	no	no	no	yes	
61149.81c	147.639	ENDF71x	ENDF/B-VII.1	2006	600.0	82044	2506	20.0	no	no	no	no	yes	
61149.82c	147.639	ENDF71x	ENDF/B-VII.1	2006	900.0	82077	2511	20.0	no	no	no	no	yes	
61149.83c	147.639	ENDF71x	ENDF/B-VII.1	2006	1200.0	82092	2513	20.0	no	no	no	no	yes	
61149.84c	147.639	ENDF71x	ENDF/B-VII.1	2006	2500.0	82036	2505	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
61149.85c	147.639	ENDF71x	ENDF/B-VII.1	2006	0.1	82099	2514	20.0	no	no	no	no	yes	
61149.86c	147.639	ENDF71x	ENDF/B-VII.1	2006	250.0	82084	2512	20.0	no	no	no	no	yes	
61149.70c	147.639	endf70g	ENDF/B-VII.0	2006	293.6	81483	2534	20	no	no	no	no	yes	
61149.71c	147.639	endf70g	ENDF/B-VII.0	2006	600	81435	2527	20	no	no	no	no	yes	
61149.72c	147.639	endf70g	ENDF/B-VII.0	2006	900	81468	2532	20	no	no	no	no	yes	
61149.73c	147.639	endf70g	ENDF/B-VII.0	2006	1200	81483	2534	20	no	no	no	no	yes	
61149.74c	147.639	endf70g	ENDF/B-VII.0	2006	2500	81427	2526	20	no	no	no	no	yes	
61149.50c	147.639	kidman	ENDF/B-V.0	1979	293.6	2069	238	20	no	no	no	no	no	
61149.710nc	147.639	ENDF71x	ENDF/B-VII.1	2006	293.6	82092	2513	20.0	no	no	no	no	yes	
61149.711nc	147.639	ENDF71x	ENDF/B-VII.1	2006	600.0	82044	2506	20.0	no	no	no	no	yes	
61149.712nc	147.639	ENDF71x	ENDF/B-VII.1	2006	900.0	82077	2511	20.0	no	no	no	no	yes	
61149.713nc	147.639	ENDF71x	ENDF/B-VII.1	2006	1200.0	82092	2513	20.0	no	no	no	no	yes	
61149.714nc	147.639	ENDF71x	ENDF/B-VII.1	2006	2500.0	82036	2505	20.0	no	no	no	no	yes	
61149.715nc	147.639	ENDF71x	ENDF/B-VII.1	2006	0.1	82099	2514	20.0	no	no	no	no	yes	
61149.716nc	147.639	ENDF71x	ENDF/B-VII.1	2006	250.0	82084	2512	20.0	no	no	no	no	yes	
Pm-151														
61151.80c	149.625	ENDF71x	ENDF/B-VII.1	2006	293.6	233814	8776	20.0	yes	no	yes	no	yes	
61151.81c	149.625	ENDF71x	ENDF/B-VII.1	2006	600.0	229158	8194	20.0	yes	no	yes	no	yes	
61151.82c	149.625	ENDF71x	ENDF/B-VII.1	2006	900.0	226302	7837	20.0	yes	no	yes	no	yes	
61151.83c	149.625	ENDF71x	ENDF/B-VII.1	2006	1200.0	224079	7559	20.0	yes	no	yes	no	yes	
61151.84c	149.625	ENDF71x	ENDF/B-VII.1	2006	2500.0	216743	6642	20.0	yes	no	yes	no	yes	
61151.85c	149.625	ENDF71x	ENDF/B-VII.1	2006	0.1	253566	11245	20.0	yes	no	yes	no	yes	
61151.86c	149.625	ENDF71x	ENDF/B-VII.1	2006	250.0	234582	8872	20.0	yes	no	yes	no	yes	
61151.70c	149.625	endf70g	ENDF/B-VII.0	2006	293.6	231373	8914	20	yes	no	yes	no	no	
61151.71c	149.625	endf70g	ENDF/B-VII.0	2006	600	226717	8332	20	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
61151.72c	149.625	endf70g	ENDF/B-VII.0	2006	900	223861	7975	20	yes	no	yes	no	no	
61151.73c	149.625	endf70g	ENDF/B-VII.0	2006	1200	221638	7697	20	yes	no	yes	no	no	
61151.74c	149.625	endf70g	ENDF/B-VII.0	2006	2500	214302	6780	20	yes	no	yes	no	no	
61151.710nc	149.625	ENDF71x	ENDF/B-VII.1	2006	293.6	233814	8776	20.0	yes	no	yes	no	yes	
61151.711nc	149.625	ENDF71x	ENDF/B-VII.1	2006	600.0	229158	8194	20.0	yes	no	yes	no	yes	
61151.712nc	149.625	ENDF71x	ENDF/B-VII.1	2006	900.0	226302	7837	20.0	yes	no	yes	no	yes	
61151.713nc	149.625	ENDF71x	ENDF/B-VII.1	2006	1200.0	224079	7559	20.0	yes	no	yes	no	yes	
61151.714nc	149.625	ENDF71x	ENDF/B-VII.1	2006	2500.0	216743	6642	20.0	yes	no	yes	no	yes	
61151.715nc	149.625	ENDF71x	ENDF/B-VII.1	2006	0.1	253566	11245	20.0	yes	no	yes	no	yes	
61151.716nc	149.625	ENDF71x	ENDF/B-VII.1	2006	250.0	234582	8872	20.0	yes	no	yes	no	yes	
Pm-548														
61548.80c	146.65	ENDF71x	ENDF/B-VII.1	2006	293.6	42690	678	20.0	no	no	no	no	no	
61548.81c	146.65	ENDF71x	ENDF/B-VII.1	2006	600.0	42551	667	20.0	no	no	no	no	no	
61548.82c	146.65	ENDF71x	ENDF/B-VII.1	2006	900.0	42461	660	20.0	no	no	no	no	no	
61548.83c	146.65	ENDF71x	ENDF/B-VII.1	2006	1200.0	42358	652	20.0	no	no	no	no	no	
61548.84c	146.65	ENDF71x	ENDF/B-VII.1	2006	2500.0	42281	644	20.0	no	no	no	no	no	
61548.85c	146.65	ENDF71x	ENDF/B-VII.1	2006	0.1	42855	691	20.0	no	no	no	no	no	
61548.86c	146.65	ENDF71x	ENDF/B-VII.1	2006	250.0	42718	680	20.0	no	no	no	no	no	
61548.70c	146.65	endf70g	ENDF/B-VII.0	2006	293.6	46205	927	20	no	no	no	no	no	
61548.71c	146.65	endf70g	ENDF/B-VII.0	2006	600	46066	916	20	no	no	no	no	no	
61548.72c	146.65	endf70g	ENDF/B-VII.0	2006	900	45976	909	20	no	no	no	no	no	
61548.73c	146.65	endf70g	ENDF/B-VII.0	2006	1200	45873	901	20	no	no	no	no	no	
61548.74c	146.65	endf70g	ENDF/B-VII.0	2006	2500	45796	893	20	no	no	no	no	no	
Z = 62, samarium														
Sm-144														

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
62144.80c	142.676	ENDF71x	ENDF/B-VII.1	2006	293.6	300402	10889	20.0	yes	no	yes	no	yes	
62144.81c	142.676	ENDF71x	ENDF/B-VII.1	2006	600.0	297370	10510	20.0	yes	no	yes	no	yes	
62144.82c	142.676	ENDF71x	ENDF/B-VII.1	2006	900.0	295579	10286	20.0	yes	no	yes	no	yes	
62144.83c	142.676	ENDF71x	ENDF/B-VII.1	2006	1200.0	294179	10111	20.0	yes	no	yes	no	yes	
62144.84c	142.676	ENDF71x	ENDF/B-VII.1	2006	2500.0	290178	9611	20.0	yes	no	yes	no	yes	
62144.85c	142.676	ENDF71x	ENDF/B-VII.1	2006	0.1	331443	14769	20.0	yes	no	yes	no	yes	
62144.86c	142.676	ENDF71x	ENDF/B-VII.1	2006	250.0	301226	10992	20.0	yes	no	yes	no	yes	
62144.70c	142.676	endf70g	ENDF/B-VII.0	2006	293.6	301940	10955	20	yes	no	yes	no	yes	
62144.71c	142.676	endf70g	ENDF/B-VII.0	2006	600	298908	10576	20	yes	no	yes	no	yes	
62144.72c	142.676	endf70g	ENDF/B-VII.0	2006	900	297117	10352	20	yes	no	yes	no	yes	
62144.73c	142.676	endf70g	ENDF/B-VII.0	2006	1200	295717	10177	20	yes	no	yes	no	yes	
62144.74c	142.676	endf70g	ENDF/B-VII.0	2006	2500	291716	9677	20	yes	no	yes	no	yes	
62144.710nc	142.676	ENDF71x	ENDF/B-VII.1	2006	293.6	300402	10889	20.0	yes	no	yes	no	yes	
62144.711nc	142.676	ENDF71x	ENDF/B-VII.1	2006	600.0	297370	10510	20.0	yes	no	yes	no	yes	
62144.712nc	142.676	ENDF71x	ENDF/B-VII.1	2006	900.0	295579	10286	20.0	yes	no	yes	no	yes	
62144.713nc	142.676	ENDF71x	ENDF/B-VII.1	2006	1200.0	294179	10111	20.0	yes	no	yes	no	yes	
62144.714nc	142.676	ENDF71x	ENDF/B-VII.1	2006	2500.0	290178	9611	20.0	yes	no	yes	no	yes	
62144.715nc	142.676	ENDF71x	ENDF/B-VII.1	2006	0.1	331443	14769	20.0	yes	no	yes	no	yes	
62144.716nc	142.676	ENDF71x	ENDF/B-VII.1	2006	250.0	301226	10992	20.0	yes	no	yes	no	yes	
Sm-147														
62147.80c	145.653	ENDF71x	ENDF/B-VII.1	2006	293.6	607780	39456	20.0	yes	no	yes	no	yes	
62147.81c	145.653	ENDF71x	ENDF/B-VII.1	2006	600.0	562560	34934	20.0	yes	no	yes	no	yes	
62147.82c	145.653	ENDF71x	ENDF/B-VII.1	2006	900.0	533081	31986	20.0	yes	no	yes	no	yes	
62147.83c	145.653	ENDF71x	ENDF/B-VII.1	2006	1200.0	512090	29887	20.0	yes	no	yes	no	yes	
62147.84c	145.653	ENDF71x	ENDF/B-VII.1	2006	2500.0	456340	24312	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
62147.85c	145.653	ENDF71x	ENDF/B-VII.1	2006	0.1	767110	55389	20.0	yes	no	yes	no	yes	
62147.86c	145.653	ENDF71x	ENDF/B-VII.1	2006	250.0	615851	40263	20.0	yes	no	yes	no	yes	
62147.70c	145.653	endf70g	ENDF/B-VII.0	2006	293.6	609934	39554	20	yes	no	yes	no	yes	
62147.71c	145.653	endf70g	ENDF/B-VII.0	2006	600	564714	35032	20	yes	no	yes	no	yes	
62147.72c	145.653	endf70g	ENDF/B-VII.0	2006	900	535235	32084	20	yes	no	yes	no	yes	
62147.73c	145.653	endf70g	ENDF/B-VII.0	2006	1200	514244	29985	20	yes	no	yes	no	yes	
62147.74c	145.653	endf70g	ENDF/B-VII.0	2006	2500	458494	24410	20	yes	no	yes	no	yes	
62147.66c	145.653	endf66b	ENDF/B-VI.0	1980	293.6	315674	25815	20	no	no	no	no	yes	
62147.65c	145.653	endf66e	ENDF/B-VI.0	1980	3000.1	186194	15025	20	no	no	no	no	yes	
62147.50c	145.653	kidman	ENDF/B-V.0	1980	293.6	33773	2885	20	no	no	no	no	no	
62147.710nc	145.653	ENDF71x	ENDF/B-VII.1	2006	293.6	607780	39456	20.0	yes	no	yes	no	yes	
62147.711nc	145.653	ENDF71x	ENDF/B-VII.1	2006	600.0	562560	34934	20.0	yes	no	yes	no	yes	
62147.712nc	145.653	ENDF71x	ENDF/B-VII.1	2006	900.0	533081	31986	20.0	yes	no	yes	no	yes	
62147.713nc	145.653	ENDF71x	ENDF/B-VII.1	2006	1200.0	512090	29887	20.0	yes	no	yes	no	yes	
62147.714nc	145.653	ENDF71x	ENDF/B-VII.1	2006	2500.0	456340	24312	20.0	yes	no	yes	no	yes	
62147.715nc	145.653	ENDF71x	ENDF/B-VII.1	2006	0.1	767110	55389	20.0	yes	no	yes	no	yes	
62147.716nc	145.653	ENDF71x	ENDF/B-VII.1	2006	250.0	615851	40263	20.0	yes	no	yes	no	yes	
Sm-148														
62148.80c	146.644	ENDF71x	ENDF/B-VII.1	2006	293.6	197912	4589	20.0	yes	no	yes	no	yes	
62148.81c	146.644	ENDF71x	ENDF/B-VII.1	2006	600.0	196695	4437	20.0	yes	no	yes	no	yes	
62148.82c	146.644	ENDF71x	ENDF/B-VII.1	2006	900.0	195839	4330	20.0	yes	no	yes	no	yes	
62148.83c	146.644	ENDF71x	ENDF/B-VII.1	2006	1200.0	195463	4283	20.0	yes	no	yes	no	yes	
62148.84c	146.644	ENDF71x	ENDF/B-VII.1	2006	2500.0	193544	4043	20.0	yes	no	yes	no	yes	
62148.85c	146.644	ENDF71x	ENDF/B-VII.1	2006	0.1	202471	5159	20.0	yes	no	yes	no	yes	
62148.86c	146.644	ENDF71x	ENDF/B-VII.1	2006	250.0	198215	4627	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
62148.70c	146.644	endf70g	ENDF/B-VII.0	2006	293.6	201223	4702	20	yes	no	yes	no	yes	
62148.71c	146.644	endf70g	ENDF/B-VII.0	2006	600	200006	4550	20	yes	no	yes	no	yes	
62148.72c	146.644	endf70g	ENDF/B-VII.0	2006	900	199150	4443	20	yes	no	yes	no	yes	
62148.73c	146.644	endf70g	ENDF/B-VII.0	2006	1200	198774	4396	20	yes	no	yes	no	yes	
62148.74c	146.644	endf70g	ENDF/B-VII.0	2006	2500	196855	4156	20	yes	no	yes	no	yes	
62148.710nc	146.644	ENDF71x	ENDF/B-VII.1	2006	293.6	197912	4589	20.0	yes	no	yes	no	yes	
62148.711nc	146.644	ENDF71x	ENDF/B-VII.1	2006	600.0	196695	4437	20.0	yes	no	yes	no	yes	
62148.712nc	146.644	ENDF71x	ENDF/B-VII.1	2006	900.0	195839	4330	20.0	yes	no	yes	no	yes	
62148.713nc	146.644	ENDF71x	ENDF/B-VII.1	2006	1200.0	195463	4283	20.0	yes	no	yes	no	yes	
62148.714nc	146.644	ENDF71x	ENDF/B-VII.1	2006	2500.0	193544	4043	20.0	yes	no	yes	no	yes	
62148.715nc	146.644	ENDF71x	ENDF/B-VII.1	2006	0.1	202471	5159	20.0	yes	no	yes	no	yes	
62148.716nc	146.644	ENDF71x	ENDF/B-VII.1	2006	250.0	198215	4627	20.0	yes	no	yes	no	yes	
Sm-149														
62149.80c	147.638	ENDF71x	ENDF/B-VII.1	2006	293.6	478162	26377	20.0	yes	no	yes	no	yes	
62149.81c	147.638	ENDF71x	ENDF/B-VII.1	2006	600.0	437412	22302	20.0	yes	no	yes	no	yes	
62149.82c	147.638	ENDF71x	ENDF/B-VII.1	2006	900.0	414032	19964	20.0	yes	no	yes	no	yes	
62149.83c	147.638	ENDF71x	ENDF/B-VII.1	2006	1200.0	397573	18318	20.0	yes	no	yes	no	yes	
62149.84c	147.638	ENDF71x	ENDF/B-VII.1	2006	2500.0	356612	14222	20.0	yes	no	yes	no	yes	
62149.85c	147.638	ENDF71x	ENDF/B-VII.1	2006	0.1	624103	40971	20.0	yes	no	yes	no	yes	
62149.86c	147.638	ENDF71x	ENDF/B-VII.1	2006	250.0	485832	27144	20.0	yes	no	yes	no	yes	
62149.70c	147.638	endf70g	ENDF/B-VII.0	2006	293.6	479655	26500	20	yes	no	yes	no	yes	
62149.71c	147.638	endf70g	ENDF/B-VII.0	2006	600	438905	22425	20	yes	no	yes	no	yes	
62149.72c	147.638	endf70g	ENDF/B-VII.0	2006	900	415525	20087	20	yes	no	yes	no	yes	
62149.73c	147.638	endf70g	ENDF/B-VII.0	2006	1200	399066	18441	20	yes	no	yes	no	yes	
62149.74c	147.638	endf70g	ENDF/B-VII.0	2006	2500	358105	14345	20	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
62149.66c	147.638	endf66b	ENDF/B-VI.0	1978	293.6	64240	7733	20	no	no	no	no	yes	
62149.65c	147.638	endf66e	ENDF/B-VI.0	1978	3000.1	47902	5399	20	no	no	no	no	yes	
62149.49c	147.638	uresa	ENDF/B-VI.0	1978	300	57787	7392	20	no	no	no	no	yes	
62149.50c	147.638	endf5u	ENDF/B-V.0	1978	293.6	15662	2008	20	no	no	no	no	no	
62149.710nc	147.638	ENDF71x	ENDF/B-VII.1	2006	293.6	478162	26377	20.0	yes	no	yes	no	yes	
62149.711nc	147.638	ENDF71x	ENDF/B-VII.1	2006	600.0	437412	22302	20.0	yes	no	yes	no	yes	
62149.712nc	147.638	ENDF71x	ENDF/B-VII.1	2006	900.0	414032	19964	20.0	yes	no	yes	no	yes	
62149.713nc	147.638	ENDF71x	ENDF/B-VII.1	2006	1200.0	397573	18318	20.0	yes	no	yes	no	yes	
62149.714nc	147.638	ENDF71x	ENDF/B-VII.1	2006	2500.0	356612	14222	20.0	yes	no	yes	no	yes	
62149.715nc	147.638	ENDF71x	ENDF/B-VII.1	2006	0.1	624103	40971	20.0	yes	no	yes	no	yes	
62149.716nc	147.638	ENDF71x	ENDF/B-VII.1	2006	250.0	485832	27144	20.0	yes	no	yes	no	yes	
Sm-150														
62150.80c	148.629	ENDF71x	ENDF/B-VII.1	2006	293.6	298239	8696	20.0	yes	no	yes	no	yes	
62150.81c	148.629	ENDF71x	ENDF/B-VII.1	2006	600.0	295967	8412	20.0	yes	no	yes	no	yes	
62150.82c	148.629	ENDF71x	ENDF/B-VII.1	2006	900.0	294463	8224	20.0	yes	no	yes	no	yes	
62150.83c	148.629	ENDF71x	ENDF/B-VII.1	2006	1200.0	293016	8043	20.0	yes	no	yes	no	yes	
62150.84c	148.629	ENDF71x	ENDF/B-VII.1	2006	2500.0	289335	7583	20.0	yes	no	yes	no	yes	
62150.85c	148.629	ENDF71x	ENDF/B-VII.1	2006	0.1	308735	10008	20.0	yes	no	yes	no	yes	
62150.86c	148.629	ENDF71x	ENDF/B-VII.1	2006	250.0	298735	8758	20.0	yes	no	yes	no	yes	
62150.70c	148.629	endf70g	ENDF/B-VII.0	2006	293.6	300548	8796	20	yes	no	yes	no	yes	
62150.71c	148.629	endf70g	ENDF/B-VII.0	2006	600	298276	8512	20	yes	no	yes	no	yes	
62150.72c	148.629	endf70g	ENDF/B-VII.0	2006	900	296772	8324	20	yes	no	yes	no	yes	
62150.73c	148.629	endf70g	ENDF/B-VII.0	2006	1200	295325	8143	20	yes	no	yes	no	yes	
62150.74c	148.629	endf70g	ENDF/B-VII.0	2006	2500	291644	7683	20	yes	no	yes	no	yes	
62150.49c	148.629	uresa	ENDF/B-VI.2	1992	300	60992	8183	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
62150.50c	148.629	kidman	ENDF/B-V.0	1974	293.6	9345	1329	20	no	no	no	no	no	
62150.710nc	148.629	ENDF71x	ENDF/B-VII.1	2006	293.6	298239	8696	20.0	yes	no	yes	no	yes	
62150.711nc	148.629	ENDF71x	ENDF/B-VII.1	2006	600.0	295967	8412	20.0	yes	no	yes	no	yes	
62150.712nc	148.629	ENDF71x	ENDF/B-VII.1	2006	900.0	294463	8224	20.0	yes	no	yes	no	yes	
62150.713nc	148.629	ENDF71x	ENDF/B-VII.1	2006	1200.0	293016	8043	20.0	yes	no	yes	no	yes	
62150.714nc	148.629	ENDF71x	ENDF/B-VII.1	2006	2500.0	289335	7583	20.0	yes	no	yes	no	yes	
62150.715nc	148.629	ENDF71x	ENDF/B-VII.1	2006	0.1	308735	10008	20.0	yes	no	yes	no	yes	
62150.716nc	148.629	ENDF71x	ENDF/B-VII.1	2006	250.0	298735	8758	20.0	yes	no	yes	no	yes	
Sm-151														
62151.80c	149.623	ENDF71x	ENDF/B-VII.1	2006	293.6	374418	17721	20.0	yes	no	yes	no	yes	
62151.81c	149.623	ENDF71x	ENDF/B-VII.1	2006	600.0	354218	15196	20.0	yes	no	yes	no	yes	
62151.82c	149.623	ENDF71x	ENDF/B-VII.1	2006	900.0	342187	13692	20.0	yes	no	yes	no	yes	
62151.83c	149.623	ENDF71x	ENDF/B-VII.1	2006	1200.0	332506	12482	20.0	yes	no	yes	no	yes	
62151.84c	149.623	ENDF71x	ENDF/B-VII.1	2006	2500.0	310163	9689	20.0	yes	no	yes	no	yes	
62151.85c	149.623	ENDF71x	ENDF/B-VII.1	2006	0.1	444794	26518	20.0	yes	no	yes	no	yes	
62151.86c	149.623	ENDF71x	ENDF/B-VII.1	2006	250.0	379330	18335	20.0	yes	no	yes	no	yes	
62151.70c	149.623	endf70g	ENDF/B-VII.0	2006	293.6	377075	17861	20	yes	no	yes	no	yes	
62151.71c	149.623	endf70g	ENDF/B-VII.0	2006	600	356875	15336	20	yes	no	yes	no	yes	
62151.72c	149.623	endf70g	ENDF/B-VII.0	2006	900	344844	13832	20	yes	no	yes	no	yes	
62151.73c	149.623	endf70g	ENDF/B-VII.0	2006	1200	335163	12622	20	yes	no	yes	no	yes	
62151.74c	149.623	endf70g	ENDF/B-VII.0	2006	2500	312820	9829	20	yes	no	yes	no	yes	
62151.50c	149.623	kidman	ENDF/B-V.0	1980	293.6	7303	605	20	no	no	no	no	no	
62151.710nc	149.623	ENDF71x	ENDF/B-VII.1	2006	293.6	374418	17721	20.0	yes	no	yes	no	yes	
62151.711nc	149.623	ENDF71x	ENDF/B-VII.1	2006	600.0	354218	15196	20.0	yes	no	yes	no	yes	
62151.712nc	149.623	ENDF71x	ENDF/B-VII.1	2006	900.0	342187	13692	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
62151.713nc	149.623	ENDF71x	ENDF/B-VII.1	2006	1200.0	332506	12482	20.0	yes	no	yes	no	yes	
62151.714nc	149.623	ENDF71x	ENDF/B-VII.1	2006	2500.0	310163	9689	20.0	yes	no	yes	no	yes	
62151.715nc	149.623	ENDF71x	ENDF/B-VII.1	2006	0.1	444794	26518	20.0	yes	no	yes	no	yes	
62151.716nc	149.623	ENDF71x	ENDF/B-VII.1	2006	250.0	379330	18335	20.0	yes	no	yes	no	yes	
Sm-152														
62152.80c	150.615	ENDF71x	ENDF/B-VII.1	2006	293.6	394891	22016	20.0	yes	no	yes	no	yes	
62152.81c	150.615	ENDF71x	ENDF/B-VII.1	2006	600.0	383563	20600	20.0	yes	no	yes	no	yes	
62152.82c	150.615	ENDF71x	ENDF/B-VII.1	2006	900.0	377107	19793	20.0	yes	no	yes	no	yes	
62152.83c	150.615	ENDF71x	ENDF/B-VII.1	2006	1200.0	372604	19230	20.0	yes	no	yes	no	yes	
62152.84c	150.615	ENDF71x	ENDF/B-VII.1	2006	2500.0	360044	17660	20.0	yes	no	yes	no	yes	
62152.85c	150.615	ENDF71x	ENDF/B-VII.1	2006	0.1	455324	29570	20.0	yes	no	yes	no	yes	
62152.86c	150.615	ENDF71x	ENDF/B-VII.1	2006	250.0	397043	22285	20.0	yes	no	yes	no	yes	
62152.70c	150.615	endf70g	ENDF/B-VII.0	2006	293.6	396422	22080	20	yes	no	yes	no	yes	
62152.71c	150.615	endf70g	ENDF/B-VII.0	2006	600	385094	20664	20	yes	no	yes	no	yes	
62152.72c	150.615	endf70g	ENDF/B-VII.0	2006	900	378638	19857	20	yes	no	yes	no	yes	
62152.73c	150.615	endf70g	ENDF/B-VII.0	2006	1200	374135	19294	20	yes	no	yes	no	yes	
62152.74c	150.615	endf70g	ENDF/B-VII.0	2006	2500	361575	17724	20	yes	no	yes	no	yes	
62152.49c	150.615	uresa	ENDF/B-VI.2	1992	300	203407	19737	20	no	no	no	no	yes	
62152.50c	150.615	kidman	ENDF/B-V.0	1980	293.6	41252	4298	20	no	no	no	no	no	
62152.710nc	150.615	ENDF71x	ENDF/B-VII.1	2006	293.6	394891	22016	20.0	yes	no	yes	no	yes	
62152.711nc	150.615	ENDF71x	ENDF/B-VII.1	2006	600.0	383563	20600	20.0	yes	no	yes	no	yes	
62152.712nc	150.615	ENDF71x	ENDF/B-VII.1	2006	900.0	377107	19793	20.0	yes	no	yes	no	yes	
62152.713nc	150.615	ENDF71x	ENDF/B-VII.1	2006	1200.0	372604	19230	20.0	yes	no	yes	no	yes	
62152.714nc	150.615	ENDF71x	ENDF/B-VII.1	2006	2500.0	360044	17660	20.0	yes	no	yes	no	yes	
62152.715nc	150.615	ENDF71x	ENDF/B-VII.1	2006	0.1	455324	29570	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
62152.716nc	150.615	ENDF71x	ENDF/B-VII.1	2006	250.0	397043	22285	20.0	yes	no	yes	no	yes	
Sm-153														
62153.80c	151.608	ENDF71x	ENDF/B-VII.1	2006	293.6	218253	3008	20.0	yes	no	yes	no	yes	
62153.81c	151.608	ENDF71x	ENDF/B-VII.1	2006	600.0	216941	2844	20.0	yes	no	yes	no	yes	
62153.82c	151.608	ENDF71x	ENDF/B-VII.1	2006	900.0	216269	2760	20.0	yes	no	yes	no	yes	
62153.83c	151.608	ENDF71x	ENDF/B-VII.1	2006	1200.0	215701	2689	20.0	yes	no	yes	no	yes	
62153.84c	151.608	ENDF71x	ENDF/B-VII.1	2006	2500.0	213893	2463	20.0	yes	no	yes	no	yes	
62153.85c	151.608	ENDF71x	ENDF/B-VII.1	2006	0.1	221173	3373	20.0	yes	no	yes	no	yes	
62153.86c	151.608	ENDF71x	ENDF/B-VII.1	2006	250.0	218518	3041	20.0	yes	no	yes	no	yes	
62153.70c	151.608	endf70g	ENDF/B-VII.0	2006	293.6	217483	3179	20	yes	no	yes	no	no	
62153.71c	151.608	endf70g	ENDF/B-VII.0	2006	600	216171	3015	20	yes	no	yes	no	no	
62153.72c	151.608	endf70g	ENDF/B-VII.0	2006	900	215499	2931	20	yes	no	yes	no	no	
62153.73c	151.608	endf70g	ENDF/B-VII.0	2006	1200	214931	2860	20	yes	no	yes	no	no	
62153.74c	151.608	endf70g	ENDF/B-VII.0	2006	2500	213123	2634	20	yes	no	yes	no	no	
62153.710nc	151.608	ENDF71x	ENDF/B-VII.1	2006	293.6	218253	3008	20.0	yes	no	yes	no	yes	
62153.711nc	151.608	ENDF71x	ENDF/B-VII.1	2006	600.0	216941	2844	20.0	yes	no	yes	no	yes	
62153.712nc	151.608	ENDF71x	ENDF/B-VII.1	2006	900.0	216269	2760	20.0	yes	no	yes	no	yes	
62153.713nc	151.608	ENDF71x	ENDF/B-VII.1	2006	1200.0	215701	2689	20.0	yes	no	yes	no	yes	
62153.714nc	151.608	ENDF71x	ENDF/B-VII.1	2006	2500.0	213893	2463	20.0	yes	no	yes	no	yes	
62153.715nc	151.608	ENDF71x	ENDF/B-VII.1	2006	0.1	221173	3373	20.0	yes	no	yes	no	yes	
62153.716nc	151.608	ENDF71x	ENDF/B-VII.1	2006	250.0	218518	3041	20.0	yes	no	yes	no	yes	
Sm-154														
62154.80c	152.6	ENDF71x	ENDF/B-VII.1	2006	293.6	269034	10805	20.0	yes	no	yes	no	yes	
62154.81c	152.6	ENDF71x	ENDF/B-VII.1	2006	600.0	264474	10235	20.0	yes	no	yes	no	yes	
62154.82c	152.6	ENDF71x	ENDF/B-VII.1	2006	900.0	262554	9995	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
62154.83c	152.6	ENDF71x	ENDF/B-VII.1	2006	1200.0	260993	9800	20.0	yes	no	yes	no	yes	
62154.84c	152.6	ENDF71x	ENDF/B-VII.1	2006	2500.0	256313	9215	20.0	yes	no	yes	no	yes	
62154.85c	152.6	ENDF71x	ENDF/B-VII.1	2006	0.1	289401	13351	20.0	yes	no	yes	no	yes	
62154.86c	152.6	ENDF71x	ENDF/B-VII.1	2006	250.0	269714	10890	20.0	yes	no	yes	no	yes	
62154.70c	152.6	endf70g	ENDF/B-VII.0	2006	293.6	270530	10872	20	yes	no	yes	no	yes	
62154.71c	152.6	endf70g	ENDF/B-VII.0	2006	600	265970	10302	20	yes	no	yes	no	yes	
62154.72c	152.6	endf70g	ENDF/B-VII.0	2006	900	264050	10062	20	yes	no	yes	no	yes	
62154.73c	152.6	endf70g	ENDF/B-VII.0	2006	1200	262489	9867	20	yes	no	yes	no	yes	
62154.74c	152.6	endf70g	ENDF/B-VII.0	2006	2500	257809	9282	20	yes	no	yes	no	yes	
62154.710nc	152.6	ENDF71x	ENDF/B-VII.1	2006	293.6	269034	10805	20.0	yes	no	yes	no	yes	
62154.711nc	152.6	ENDF71x	ENDF/B-VII.1	2006	600.0	264474	10235	20.0	yes	no	yes	no	yes	
62154.712nc	152.6	ENDF71x	ENDF/B-VII.1	2006	900.0	262554	9995	20.0	yes	no	yes	no	yes	
62154.713nc	152.6	ENDF71x	ENDF/B-VII.1	2006	1200.0	260993	9800	20.0	yes	no	yes	no	yes	
62154.714nc	152.6	ENDF71x	ENDF/B-VII.1	2006	2500.0	256313	9215	20.0	yes	no	yes	no	yes	
62154.715nc	152.6	ENDF71x	ENDF/B-VII.1	2006	0.1	289401	13351	20.0	yes	no	yes	no	yes	
62154.716nc	152.6	ENDF71x	ENDF/B-VII.1	2006	250.0	269714	10890	20.0	yes	no	yes	no	yes	
					Z = 63, europium									
Eu-0														
63000.35c	150.6546	rmccsa	LLNL	<1985	0	6926	364	20	yes	no	no	no	no	
63000.42c	150.6546	endl92	LLNL	<1992	300	37421	4498	30	yes	no	no	no	no	
Eu-151														
63151.80c	149.62	ENDF71x	ENDF/B-VII.1	2006	293.6	132448	10995	20.0	no	no	no	no	yes	
63151.81c	149.62	ENDF71x	ENDF/B-VII.1	2006	600.0	115493	9111	20.0	no	no	no	no	yes	
63151.82c	149.62	ENDF71x	ENDF/B-VII.1	2006	900.0	106213	8080	20.0	no	no	no	no	yes	
63151.83c	149.62	ENDF71x	ENDF/B-VII.1	2006	1200.0	99544	7339	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
63151.84c	149.62	ENDF71x	ENDF/B-VII.1	2006	2500.0	84641	5683	20.0	no	no	no	no	yes	
63151.85c	149.62	ENDF71x	ENDF/B-VII.1	2006	0.1	179477	16220	20.0	no	no	no	no	yes	
63151.86c	149.62	ENDF71x	ENDF/B-VII.1	2006	250.0	136212	11413	20.0	no	no	no	no	yes	
63151.70c	149.62	endf70g	ENDF/B-VII.0	2006	293.6	132580	11039	20	no	no	no	no	yes	
63151.71c	149.62	endf70g	ENDF/B-VII.0	2006	600	115625	9155	20	no	no	no	no	yes	
63151.72c	149.62	endf70g	ENDF/B-VII.0	2006	900	106345	8124	20	no	no	no	no	yes	
63151.73c	149.62	endf70g	ENDF/B-VII.0	2006	1200	99676	7383	20	no	no	no	no	yes	
63151.74c	149.62	endf70g	ENDF/B-VII.0	2006	2500	84773	5727	20	no	no	no	no	yes	
63151.66c	149.623	endf66b	ENDF/B-VI.0	1986	293.6	155078	10841	20	yes	no	no	no	yes	
63151.65c	149.623	endf66e	ENDF/B-VI.0	1986	3000.1	98867	5220	20	yes	no	no	no	yes	
63151.60c	149.623	endf60	ENDF/B-VI.0	1986	293.6	96099	7394	20	yes	no	no	no	no	
63151.49c	149.623	uresa	ENDF/B-VI.0	1986	300	147572	10471	20	yes	no	no	no	yes	
63151.55c	149.623	newxs	LANL/T	1986	293.6	86575	4749	20	yes	no	no	no	no	
63151.50c	149.623	rmccs	ENDF/B-V.0	1977	293.6	68057	5465	20	yes	no	no	no	no	
63151.710nc	149.62	ENDF71x	ENDF/B-VII.1	2006	293.6	132448	10995	20.0	no	no	no	no	yes	
63151.711nc	149.62	ENDF71x	ENDF/B-VII.1	2006	600.0	115493	9111	20.0	no	no	no	no	yes	
63151.712nc	149.62	ENDF71x	ENDF/B-VII.1	2006	900.0	106213	8080	20.0	no	no	no	no	yes	
63151.713nc	149.62	ENDF71x	ENDF/B-VII.1	2006	1200.0	99544	7339	20.0	no	no	no	no	yes	
63151.714nc	149.62	ENDF71x	ENDF/B-VII.1	2006	2500.0	84641	5683	20.0	no	no	no	no	yes	
63151.715nc	149.62	ENDF71x	ENDF/B-VII.1	2006	0.1	179477	16220	20.0	no	no	no	no	yes	
63151.716nc	149.62	ENDF71x	ENDF/B-VII.1	2006	250.0	136212	11413	20.0	no	no	no	no	yes	
Eu-152														
63152.80c	150.617	ENDF71x	ENDF/B-VII.1	2006	293.6	123071	8272	20.0	no	no	no	no	yes	
63152.81c	150.617	ENDF71x	ENDF/B-VII.1	2006	600.0	115965	7257	20.0	no	no	no	no	yes	
63152.82c	150.617	ENDF71x	ENDF/B-VII.1	2006	900.0	111779	6659	20.0	no	no	no	no	yes	

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
63152.83c	150.617	ENDF71x	ENDF/B-VII.1	2006	1200.0	108426	6180	20.0	no	no	no	no	yes	
63152.84c	150.617	ENDF71x	ENDF/B-VII.1	2006	2500.0	101939	5253	20.0	no	no	no	no	yes	
63152.85c	150.617	ENDF71x	ENDF/B-VII.1	2006	0.1	140766	10800	20.0	no	no	no	no	yes	
63152.86c	150.617	ENDF71x	ENDF/B-VII.1	2006	250.0	124785	8517	20.0	no	no	no	no	yes	
63152.70c	150.617	endf70g	ENDF/B-VII.0	2006	293.6	117262	8321	20	no	no	no	no	no	
63152.71c	150.617	endf70g	ENDF/B-VII.0	2006	600	110156	7306	20	no	no	no	no	no	
63152.72c	150.617	endf70g	ENDF/B-VII.0	2006	900	105970	6708	20	no	no	no	no	no	
63152.73c	150.617	endf70g	ENDF/B-VII.0	2006	1200	102617	6229	20	no	no	no	no	no	
63152.74c	150.617	endf70g	ENDF/B-VII.0	2006	2500	96130	5302	20	no	no	no	no	no	
63152.66c	150.62	endf66b	ENDF/B-VI.0	1988	293.6	89485	6833	20	no	no	no	no	yes	
63152.65c	150.62	endf66e	ENDF/B-VI.0	1988	3000.1	53516	3563	20	no	no	no	no	yes	
63152.49c	150.62	uresa	ENDF/B-VI.0	1988	300	81509	6540	20	no	no	no	no	yes	
63152.50c	150.62	endf5u	ENDF/B-V.0	1973	293.6	49313	4553	20	no	no	no	no	no	
63152.710nc	150.617	ENDF71x	ENDF/B-VII.1	2006	293.6	123071	8272	20.0	no	no	no	no	yes	
63152.711nc	150.617	ENDF71x	ENDF/B-VII.1	2006	600.0	115965	7257	20.0	no	no	no	no	yes	
63152.712nc	150.617	ENDF71x	ENDF/B-VII.1	2006	900.0	111779	6659	20.0	no	no	no	no	yes	
63152.713nc	150.617	ENDF71x	ENDF/B-VII.1	2006	1200.0	108426	6180	20.0	no	no	no	no	yes	
63152.714nc	150.617	ENDF71x	ENDF/B-VII.1	2006	2500.0	101939	5253	20.0	no	no	no	no	yes	
63152.715nc	150.617	ENDF71x	ENDF/B-VII.1	2006	0.1	140766	10800	20.0	no	no	no	no	yes	
63152.716nc	150.617	ENDF71x	ENDF/B-VII.1	2006	250.0	124785	8517	20.0	no	no	no	no	yes	
Eu-153														
63153.80c	151.608	ENDF71x	ENDF/B-VII.1	2011	293.6	256202	9790	20.0	yes	no	yes	no	yes	
63153.81c	151.608	ENDF71x	ENDF/B-VII.1	2011	600.0	243011	8471	20.0	yes	no	yes	no	yes	
63153.82c	151.608	ENDF71x	ENDF/B-VII.1	2011	900.0	235192	7689	20.0	yes	no	yes	no	yes	
63153.83c	151.608	ENDF71x	ENDF/B-VII.1	2011	1200.0	229002	7070	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
63153.84c	151.608	ENDF71x	ENDF/B-VII.1	2011	2500.0	215112	5681	20.0	yes	no	yes	no	yes	
63153.85c	151.608	ENDF71x	ENDF/B-VII.1	2011	0.1	296022	13772	20.0	yes	no	yes	no	yes	
63153.86c	151.608	ENDF71x	ENDF/B-VII.1	2011	250.0	258564	10026	20.0	yes	no	yes	no	yes	
63153.70c	151.608	endf70g	ENDF/B-VII.0	2006	293.6	254464	9944	20	yes	no	yes	no	no	
63153.71c	151.608	endf70g	ENDF/B-VII.0	2006	600	241203	8618	20	yes	no	yes	no	no	
63153.72c	151.608	endf70g	ENDF/B-VII.0	2006	900	233574	7855	20	yes	no	yes	no	no	
63153.73c	151.608	endf70g	ENDF/B-VII.0	2006	1200	227404	7238	20	yes	no	yes	no	no	
63153.74c	151.608	endf70g	ENDF/B-VII.0	2006	2500	213474	5845	20	yes	no	yes	no	no	
63153.66c	151.608	endf66b	ENDF/B-VI.0	1986	293.6	135491	9038	20	yes	no	no	no	yes	
63153.65c	151.608	endf66e	ENDF/B-VI.0	1986	3000.1	93021	4791	20	yes	no	no	no	yes	
63153.60c	151.608	endf60	ENDF/B-VI.0	1986	293.6	86490	6198	20	yes	no	no	no	no	
63153.49c	151.608	uresa	ENDF/B-VI.0	1986	300	129446	8784	20	yes	no	no	no	yes	
63153.55c	151.608	newxs	LANL/T	1986	293.6	72971	4174	20	yes	no	no	no	no	
63153.50c	151.607	rmccs	ENDF/B-V.0	1978	293.6	55231	4636	20	yes	no	no	no	no	
63153.710nc	151.608	ENDF71x	ENDF/B-VII.1	2011	293.6	256202	9790	20.0	yes	no	yes	no	yes	
63153.711nc	151.608	ENDF71x	ENDF/B-VII.1	2011	600.0	243011	8471	20.0	yes	no	yes	no	yes	
63153.712nc	151.608	ENDF71x	ENDF/B-VII.1	2011	900.0	235192	7689	20.0	yes	no	yes	no	yes	
63153.713nc	151.608	ENDF71x	ENDF/B-VII.1	2011	1200.0	229002	7070	20.0	yes	no	yes	no	yes	
63153.714nc	151.608	ENDF71x	ENDF/B-VII.1	2011	2500.0	215112	5681	20.0	yes	no	yes	no	yes	
63153.715nc	151.608	ENDF71x	ENDF/B-VII.1	2011	0.1	296022	13772	20.0	yes	no	yes	no	yes	
63153.716nc	151.608	ENDF71x	ENDF/B-VII.1	2011	250.0	258564	10026	20.0	yes	no	yes	no	yes	
Eu-154														
63154.80c	152.6	ENDF71x	ENDF/B-VII.1	2006	293.6	61440	3140	20.0	no	no	no	no	yes	
63154.81c	152.6	ENDF71x	ENDF/B-VII.1	2006	600.0	59630	2949	20.0	no	no	no	no	yes	
63154.82c	152.6	ENDF71x	ENDF/B-VII.1	2006	900.0	58295	2827	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
63154.83c	152.6	ENDF71x	ENDF/B-VII.1	2006	1200.0	56936	2703	20.0	no	no	no	no	yes	
63154.84c	152.6	ENDF71x	ENDF/B-VII.1	2006	2500.0	54151	2449	20.0	no	no	no	no	yes	
63154.85c	152.6	ENDF71x	ENDF/B-VII.1	2006	0.1	65905	3551	20.0	no	no	no	no	yes	
63154.86c	152.6	ENDF71x	ENDF/B-VII.1	2006	250.0	61744	3168	20.0	no	no	no	no	yes	
63154.70c	152.6	endf70g	ENDF/B-VII.0	2006	293.6	58425	3261	20	no	no	no	no	no	
63154.71c	152.6	endf70g	ENDF/B-VII.0	2006	600	56614	3070	20	no	no	no	no	no	
63154.72c	152.6	endf70g	ENDF/B-VII.0	2006	900	55279	2948	20	no	no	no	no	no	
63154.73c	152.6	endf70g	ENDF/B-VII.0	2006	1200	53919	2824	20	no	no	no	no	no	
63154.74c	152.6	endf70g	ENDF/B-VII.0	2006	2500	51136	2570	20	no	no	no	no	no	
63154.66c	152.6	endf66b	ENDF/B-VI.0	1989	293.6	80218	6916	20	no	no	no	no	yes	
63154.65c	152.6	endf66e	ENDF/B-VI.0	1989	3000.1	54676	4078	20	no	no	no	no	yes	
63154.49c	152.6	uresa	ENDF/B-VI.0	1989	300	72804	6627	20	no	no	uresa	no	yes	
63154.50c	152.6	endf5u	ENDF/B-V.0	1973	293.6	37008	4030	20	no	no	no	no	no	
63154.710nc	152.6	ENDF71x	ENDF/B-VII.1	2006	293.6	61440	3140	20.0	no	no	no	no	yes	
63154.711nc	152.6	ENDF71x	ENDF/B-VII.1	2006	600.0	59630	2949	20.0	no	no	no	no	yes	
63154.712nc	152.6	ENDF71x	ENDF/B-VII.1	2006	900.0	58295	2827	20.0	no	no	no	no	yes	
63154.713nc	152.6	ENDF71x	ENDF/B-VII.1	2006	1200.0	56936	2703	20.0	no	no	no	no	yes	
63154.714nc	152.6	ENDF71x	ENDF/B-VII.1	2006	2500.0	54151	2449	20.0	no	no	no	no	yes	
63154.715nc	152.6	ENDF71x	ENDF/B-VII.1	2006	0.1	65905	3551	20.0	no	no	no	no	yes	
63154.716nc	152.6	ENDF71x	ENDF/B-VII.1	2006	250.0	61744	3168	20.0	no	no	no	no	yes	
Eu-155														
63155.80c	153.59	ENDF71x	ENDF/B-VII.1	1999	293.6	48542	2084	20.0	no	no	no	no	yes	
63155.81c	153.59	ENDF71x	ENDF/B-VII.1	1999	600.0	48073	2032	20.0	no	no	no	no	yes	
63155.82c	153.59	ENDF71x	ENDF/B-VII.1	1999	900.0	47542	1973	20.0	no	no	no	no	yes	
63155.83c	153.59	ENDF71x	ENDF/B-VII.1	1999	1200.0	47335	1950	20.0	no	no	no	no	yes	

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
63155.84c	153.59	ENDF71x	ENDF/B-VII.1	1999	2500.0	46569	1865	20.0	no	no	no	no	yes	
63155.85c	153.59	ENDF71x	ENDF/B-VII.1	1999	0.1	49438	2205	20.0	no	no	no	no	yes	
63155.86c	153.59	ENDF71x	ENDF/B-VII.1	1999	250.0	48684	2100	20.0	no	no	no	no	yes	
63155.70c	153.59	endf70g	ENDF/B-VII.0	1999	293.6	44793	2158	20	no	no	no	no	no	
63155.71c	153.59	endf70g	ENDF/B-VII.0	1999	600	44315	2105	20	no	no	no	no	no	
63155.72c	153.59	endf70g	ENDF/B-VII.0	1999	900	43784	2046	20	no	no	no	no	no	
63155.73c	153.59	endf70g	ENDF/B-VII.0	1999	1200	43577	2023	20	no	no	no	no	no	
63155.74c	153.59	endf70g	ENDF/B-VII.0	1999	2500	42811	1938	20	no	no	no	no	no	
63155.66c	153.592	endf66b	ENDF/B-VI.1	1988	293.6	27638	2440	20	no	no	no	no	no	
63155.50c	153.592	kidman	ENDF/B-V.0	1974	293.6	4532	273	20	no	no	no	no	no	
63155.710nc	153.59	ENDF71x	ENDF/B-VII.1	1999	293.6	48542	2084	20.0	no	no	no	no	yes	
63155.711nc	153.59	ENDF71x	ENDF/B-VII.1	1999	600.0	48073	2032	20.0	no	no	no	no	yes	
63155.712nc	153.59	ENDF71x	ENDF/B-VII.1	1999	900.0	47542	1973	20.0	no	no	no	no	yes	
63155.713nc	153.59	ENDF71x	ENDF/B-VII.1	1999	1200.0	47335	1950	20.0	no	no	no	no	yes	
63155.714nc	153.59	ENDF71x	ENDF/B-VII.1	1999	2500.0	46569	1865	20.0	no	no	no	no	yes	
63155.715nc	153.59	ENDF71x	ENDF/B-VII.1	1999	0.1	49438	2205	20.0	no	no	no	no	yes	
63155.716nc	153.59	ENDF71x	ENDF/B-VII.1	1999	250.0	48684	2100	20.0	no	no	no	no	yes	
Eu-156														
63156.80c	154.586	ENDF71x	ENDF/B-VII.1	2006	293.6	69624	2619	20.0	no	no	no	no	yes	
63156.81c	154.586	ENDF71x	ENDF/B-VII.1	2006	600.0	69583	2613	20.0	no	no	no	no	yes	
63156.82c	154.586	ENDF71x	ENDF/B-VII.1	2006	900.0	69617	2618	20.0	no	no	no	no	yes	
63156.83c	154.586	ENDF71x	ENDF/B-VII.1	2006	1200.0	69610	2617	20.0	no	no	no	no	yes	
63156.84c	154.586	ENDF71x	ENDF/B-VII.1	2006	2500.0	69562	2610	20.0	no	no	no	no	yes	
63156.85c	154.586	ENDF71x	ENDF/B-VII.1	2006	0.1	69673	2626	20.0	no	no	no	no	yes	
63156.86c	154.586	ENDF71x	ENDF/B-VII.1	2006	250.0	69632	2620	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
63156.70c	154.586	endf70g	ENDF/B-VII.0	2006	293.6	69019	2638	20	no	no	no	no	yes	
63156.71c	154.586	endf70g	ENDF/B-VII.0	2006	600	68985	2633	20	no	no	no	no	yes	
63156.72c	154.586	endf70g	ENDF/B-VII.0	2006	900	69019	2638	20	no	no	no	no	yes	
63156.73c	154.586	endf70g	ENDF/B-VII.0	2006	1200	69012	2637	20	no	no	no	no	yes	
63156.74c	154.586	endf70g	ENDF/B-VII.0	2006	2500	68957	2629	20	no	no	no	no	yes	
63156.710nc	154.586	ENDF71x	ENDF/B-VII.1	2006	293.6	69624	2619	20.0	no	no	no	no	yes	
63156.711nc	154.586	ENDF71x	ENDF/B-VII.1	2006	600.0	69583	2613	20.0	no	no	no	no	yes	
63156.712nc	154.586	ENDF71x	ENDF/B-VII.1	2006	900.0	69617	2618	20.0	no	no	no	no	yes	
63156.713nc	154.586	ENDF71x	ENDF/B-VII.1	2006	1200.0	69610	2617	20.0	no	no	no	no	yes	
63156.714nc	154.586	ENDF71x	ENDF/B-VII.1	2006	2500.0	69562	2610	20.0	no	no	no	no	yes	
63156.715nc	154.586	ENDF71x	ENDF/B-VII.1	2006	0.1	69673	2626	20.0	no	no	no	no	yes	
63156.716nc	154.586	ENDF71x	ENDF/B-VII.1	2006	250.0	69632	2620	20.0	no	no	no	no	yes	
Eu-157														
63157.80c	155.577	ENDF71x	ENDF/B-VII.1	2006	293.6	300857	5236	20.0	yes	no	yes	no	yes	
63157.81c	155.577	ENDF71x	ENDF/B-VII.1	2006	600.0	298129	4895	20.0	yes	no	yes	no	yes	
63157.82c	155.577	ENDF71x	ENDF/B-VII.1	2006	900.0	296937	4746	20.0	yes	no	yes	no	yes	
63157.83c	155.577	ENDF71x	ENDF/B-VII.1	2006	1200.0	296057	4636	20.0	yes	no	yes	no	yes	
63157.84c	155.577	ENDF71x	ENDF/B-VII.1	2006	2500.0	292481	4189	20.0	yes	no	yes	no	yes	
63157.85c	155.577	ENDF71x	ENDF/B-VII.1	2006	0.1	310057	6386	20.0	yes	no	yes	no	yes	
63157.86c	155.577	ENDF71x	ENDF/B-VII.1	2006	250.0	301729	5345	20.0	yes	no	yes	no	yes	
63157.70c	155.577	endf70g	ENDF/B-VII.0	2006	293.6	301053	5375	20	yes	no	yes	no	yes	
63157.71c	155.577	endf70g	ENDF/B-VII.0	2006	600	298325	5034	20	yes	no	yes	no	yes	
63157.72c	155.577	endf70g	ENDF/B-VII.0	2006	900	297133	4885	20	yes	no	yes	no	yes	
63157.73c	155.577	endf70g	ENDF/B-VII.0	2006	1200	296253	4775	20	yes	no	yes	no	yes	
63157.74c	155.577	endf70g	ENDF/B-VII.0	2006	2500	292677	4328	20	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
63157.710nc	155.577	ENDF71x	ENDF/B-VII.1	2006	293.6	300857	5236	20.0	yes	no	yes	no	yes	
63157.711nc	155.577	ENDF71x	ENDF/B-VII.1	2006	600.0	298129	4895	20.0	yes	no	yes	no	yes	
63157.712nc	155.577	ENDF71x	ENDF/B-VII.1	2006	900.0	296937	4746	20.0	yes	no	yes	no	yes	
63157.713nc	155.577	ENDF71x	ENDF/B-VII.1	2006	1200.0	296057	4636	20.0	yes	no	yes	no	yes	
63157.714nc	155.577	ENDF71x	ENDF/B-VII.1	2006	2500.0	292481	4189	20.0	yes	no	yes	no	yes	
63157.715nc	155.577	ENDF71x	ENDF/B-VII.1	2006	0.1	310057	6386	20.0	yes	no	yes	no	yes	
63157.716nc	155.577	ENDF71x	ENDF/B-VII.1	2006	250.0	301729	5345	20.0	yes	no	yes	no	yes	
				Z = 64, gadolinium										
Gd-0														
64000.35c	155.8991	rmccsa	LLNL	<1985	0	7878	454	20	yes	no	no	no	no	
Gd-152														
64152.80c	150.615	ENDF71x	ENDF/B-VII.1	2006	293.6	521381	30253	20.0	yes	no	yes	no	yes	
64152.81c	150.615	ENDF71x	ENDF/B-VII.1	2006	600.0	495981	27713	20.0	yes	no	yes	no	yes	
64152.82c	150.615	ENDF71x	ENDF/B-VII.1	2006	900.0	481711	26286	20.0	yes	no	yes	no	yes	
64152.83c	150.615	ENDF71x	ENDF/B-VII.1	2006	1200.0	471140	25229	20.0	yes	no	yes	no	yes	
64152.84c	150.615	ENDF71x	ENDF/B-VII.1	2006	2500.0	442641	22379	20.0	yes	no	yes	no	yes	
64152.85c	150.615	ENDF71x	ENDF/B-VII.1	2006	0.1	667280	44843	20.0	yes	no	yes	no	yes	
64152.86c	150.615	ENDF71x	ENDF/B-VII.1	2006	250.0	526870	30802	20.0	yes	no	yes	no	yes	
64152.70c	150.615	endf70h	ENDF/B-VII.0	2006	293.6	522408	30329	20	yes	no	yes	no	yes	
64152.71c	150.615	endf70h	ENDF/B-VII.0	2006	600	497008	27789	20	yes	no	yes	no	yes	
64152.72c	150.615	endf70h	ENDF/B-VII.0	2006	900	482738	26362	20	yes	no	yes	no	yes	
64152.73c	150.615	endf70h	ENDF/B-VII.0	2006	1200	472167	25305	20	yes	no	yes	no	yes	
64152.74c	150.615	endf70h	ENDF/B-VII.0	2006	2500	443668	22455	20	yes	no	yes	no	yes	
64152.66c	150.615	endf66b	ENDF/B-VI.4	1994	293.6	341562	29480	20	no	no	no	no	yes	
64152.65c	150.615	endf66e	ENDF/B-VI.4	1994	3000.1	263235	20777	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
64152.60c	150.615	endf60	ENDF/B-VI.0	1977	293.6	32760	4391	20	no	no	no	no	no	
64152.50c	150.615	endf5u	ENDF/B-V.0	1977	293.6	26251	3285	20	no	no	no	no	no	
64152.55c	150.615	misc5xs	ENDF/B-V.0:T	1986	293.6	32590	3285	20	yes	no	no	no	no	7
	14													
64152.710nc	150.615	ENDF71x	ENDF/B-VII.1	2006	293.6	521381	30253	20.0	yes	no	yes	no	yes	
64152.711nc	150.615	ENDF71x	ENDF/B-VII.1	2006	600.0	495981	27713	20.0	yes	no	yes	no	yes	
64152.712nc	150.615	ENDF71x	ENDF/B-VII.1	2006	900.0	481711	26286	20.0	yes	no	yes	no	yes	
64152.713nc	150.615	ENDF71x	ENDF/B-VII.1	2006	1200.0	471140	25229	20.0	yes	no	yes	no	yes	
64152.714nc	150.615	ENDF71x	ENDF/B-VII.1	2006	2500.0	442641	22379	20.0	yes	no	yes	no	yes	
64152.715nc	150.615	ENDF71x	ENDF/B-VII.1	2006	0.1	667280	44843	20.0	yes	no	yes	no	yes	
64152.716nc	150.615	ENDF71x	ENDF/B-VII.1	2006	250.0	526870	30802	20.0	yes	no	yes	no	yes	
Gd-153														
64153.80c	151.608	ENDF71x	ENDF/B-VII.1	2006	293.6	334718	3472	20.0	yes	no	yes	no	yes	
64153.81c	151.608	ENDF71x	ENDF/B-VII.1	2006	600.0	333768	3377	20.0	yes	no	yes	no	yes	
64153.82c	151.608	ENDF71x	ENDF/B-VII.1	2006	900.0	332438	3244	20.0	yes	no	yes	no	yes	
64153.83c	151.608	ENDF71x	ENDF/B-VII.1	2006	1200.0	331888	3189	20.0	yes	no	yes	no	yes	
64153.84c	151.608	ENDF71x	ENDF/B-VII.1	2006	2500.0	330338	3034	20.0	yes	no	yes	no	yes	
64153.85c	151.608	ENDF71x	ENDF/B-VII.1	2006	0.1	337488	3749	20.0	yes	no	yes	no	yes	
64153.86c	151.608	ENDF71x	ENDF/B-VII.1	2006	250.0	334969	3497	20.0	yes	no	yes	no	yes	
64153.70c	151.608	endf70h	ENDF/B-VII.0	2006	293.6	336408	3572	20	yes	no	yes	no	yes	
64153.71c	151.608	endf70h	ENDF/B-VII.0	2006	600	335458	3477	20	yes	no	yes	no	yes	
64153.72c	151.608	endf70h	ENDF/B-VII.0	2006	900	334128	3344	20	yes	no	yes	no	yes	
64153.73c	151.608	endf70h	ENDF/B-VII.0	2006	1200	333578	3289	20	yes	no	yes	no	yes	
64153.74c	151.608	endf70h	ENDF/B-VII.0	2006	2500	332028	3134	20	yes	no	yes	no	yes	
64153.710nc	151.608	ENDF71x	ENDF/B-VII.1	2006	293.6	334718	3472	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
64153.711nc	151.608	ENDF71x	ENDF/B-VII.1	2006	600.0	333768	3377	20.0	yes	no	yes	no	yes	
64153.712nc	151.608	ENDF71x	ENDF/B-VII.1	2006	900.0	332438	3244	20.0	yes	no	yes	no	yes	
64153.713nc	151.608	ENDF71x	ENDF/B-VII.1	2006	1200.0	331888	3189	20.0	yes	no	yes	no	yes	
64153.714nc	151.608	ENDF71x	ENDF/B-VII.1	2006	2500.0	330338	3034	20.0	yes	no	yes	no	yes	
64153.715nc	151.608	ENDF71x	ENDF/B-VII.1	2006	0.1	337488	3749	20.0	yes	no	yes	no	yes	
64153.716nc	151.608	ENDF71x	ENDF/B-VII.1	2006	250.0	334969	3497	20.0	yes	no	yes	no	yes	
Gd-154														
64154.80c	152.599	ENDF71x	ENDF/B-VII.1	2006	293.6	606432	33717	20.0	yes	no	yes	no	yes	
64154.81c	152.599	ENDF71x	ENDF/B-VII.1	2006	600.0	583088	30799	20.0	yes	no	yes	no	yes	
64154.82c	152.599	ENDF71x	ENDF/B-VII.1	2006	900.0	570416	29215	20.0	yes	no	yes	no	yes	
64154.83c	152.599	ENDF71x	ENDF/B-VII.1	2006	1200.0	560536	27980	20.0	yes	no	yes	no	yes	
64154.84c	152.599	ENDF71x	ENDF/B-VII.1	2006	2500.0	532552	24482	20.0	yes	no	yes	no	yes	
64154.85c	152.599	ENDF71x	ENDF/B-VII.1	2006	0.1	743800	50888	20.0	yes	no	yes	no	yes	
64154.86c	152.599	ENDF71x	ENDF/B-VII.1	2006	250.0	611160	34308	20.0	yes	no	yes	no	yes	
64154.70c	152.599	endf70h	ENDF/B-VII.0	2006	293.6	607214	33802	20	yes	no	yes	no	yes	
64154.71c	152.599	endf70h	ENDF/B-VII.0	2006	600	583870	30884	20	yes	no	yes	no	yes	
64154.72c	152.599	endf70h	ENDF/B-VII.0	2006	900	571198	29300	20	yes	no	yes	no	yes	
64154.73c	152.599	endf70h	ENDF/B-VII.0	2006	1200	561318	28065	20	yes	no	yes	no	yes	
64154.74c	152.599	endf70h	ENDF/B-VII.0	2006	2500	533334	24567	20	yes	no	yes	no	yes	
64154.66c	152.599	endf66b	ENDF/B-VI.4	1994	293.6	286357	31180	20	no	no	no	no	yes	
64154.65c	152.599	endf66e	ENDF/B-VI.4	1994	3000.1	218806	21530	20	no	no	no	no	yes	
64154.60c	152.599	endf60	ENDF/B-VI.0	1977	293.6	67662	10189	20	no	no	no	no	no	
64154.50c	152.599	endf5u	ENDF/B-V.0	1977	293.6	49572	7167	20	no	no	no	no	no	
64154.55c	152.599	misc5xs	ENDF/B-V.0:T	1986	293.6	59814	7167	20	yes	no	no	no	no	7
	14													

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
64154.710nc	152.599	ENDF71x	ENDF/B-VII.1	2006	293.6	606432	33717	20.0	yes	no	yes	no	yes	
64154.711nc	152.599	ENDF71x	ENDF/B-VII.1	2006	600.0	583088	30799	20.0	yes	no	yes	no	yes	
64154.712nc	152.599	ENDF71x	ENDF/B-VII.1	2006	900.0	570416	29215	20.0	yes	no	yes	no	yes	
64154.713nc	152.599	ENDF71x	ENDF/B-VII.1	2006	1200.0	560536	27980	20.0	yes	no	yes	no	yes	
64154.714nc	152.599	ENDF71x	ENDF/B-VII.1	2006	2500.0	532552	24482	20.0	yes	no	yes	no	yes	
64154.715nc	152.599	ENDF71x	ENDF/B-VII.1	2006	0.1	743800	50888	20.0	yes	no	yes	no	yes	
64154.716nc	152.599	ENDF71x	ENDF/B-VII.1	2006	250.0	611160	34308	20.0	yes	no	yes	no	yes	
Gd-155														
64155.80c	153.592	ENDF71x	ENDF/B-VII.1	2006	293.6	342558	12764	20.0	yes	no	yes	no	yes	
64155.81c	153.592	ENDF71x	ENDF/B-VII.1	2006	600.0	322918	10800	20.0	yes	no	yes	no	yes	
64155.82c	153.592	ENDF71x	ENDF/B-VII.1	2006	900.0	311767	9685	20.0	yes	no	yes	no	yes	
64155.83c	153.592	ENDF71x	ENDF/B-VII.1	2006	1200.0	303428	8851	20.0	yes	no	yes	no	yes	
64155.84c	153.592	ENDF71x	ENDF/B-VII.1	2006	2500.0	285688	7077	20.0	yes	no	yes	no	yes	
64155.85c	153.592	ENDF71x	ENDF/B-VII.1	2006	0.1	399818	18490	20.0	yes	no	yes	no	yes	
64155.86c	153.592	ENDF71x	ENDF/B-VII.1	2006	250.0	346357	13144	20.0	yes	no	yes	no	yes	
64155.70c	153.592	endf70h	ENDF/B-VII.0	2006	293.6	343456	12875	20	yes	no	yes	no	yes	
64155.71c	153.592	endf70h	ENDF/B-VII.0	2006	600	323816	10911	20	yes	no	yes	no	yes	
64155.72c	153.592	endf70h	ENDF/B-VII.0	2006	900	312665	9796	20	yes	no	yes	no	yes	
64155.73c	153.592	endf70h	ENDF/B-VII.0	2006	1200	304326	8962	20	yes	no	yes	no	yes	
64155.74c	153.592	endf70h	ENDF/B-VII.0	2006	2500	286586	7188	20	yes	no	yes	no	yes	
64155.66c	153.592	endf66b	ENDF/B-VI.0	1977	293.6	106795	13011	20	no	no	no	no	yes	
64155.65c	153.592	endf66e	ENDF/B-VI.0	1977	3000.1	62954	6748	20	no	no	no	no	yes	
64155.60c	153.592	endf60	ENDF/B-VI.0	1977	293.6	61398	9052	20	no	no	no	no	no	
64155.50c	153.592	endf5u	ENDF/B-V.0	1977	293.6	44965	6314	20	no	no	no	no	no	
64155.55c	153.592	misc5xs	ENDF/B-V.0:T	1986	293.6	54346	6314	20	yes	no	no	no	no	7

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Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
		14												
64155.710nc	153.592	ENDF71x	ENDF/B-VII.1	2006	293.6	342558	12764	20.0	yes	no	yes	no	yes	
64155.711nc	153.592	ENDF71x	ENDF/B-VII.1	2006	600.0	322918	10800	20.0	yes	no	yes	no	yes	
64155.712nc	153.592	ENDF71x	ENDF/B-VII.1	2006	900.0	311767	9685	20.0	yes	no	yes	no	yes	
64155.713nc	153.592	ENDF71x	ENDF/B-VII.1	2006	1200.0	303428	8851	20.0	yes	no	yes	no	yes	
64155.714nc	153.592	ENDF71x	ENDF/B-VII.1	2006	2500.0	285688	7077	20.0	yes	no	yes	no	yes	
64155.715nc	153.592	ENDF71x	ENDF/B-VII.1	2006	0.1	399818	18490	20.0	yes	no	yes	no	yes	
64155.716nc	153.592	ENDF71x	ENDF/B-VII.1	2006	250.0	346357	13144	20.0	yes	no	yes	no	yes	
Gd-156														
64156.80c	154.583	ENDF71x	ENDF/B-VII.1	2006	293.6	441415	18700	20.0	yes	no	yes	no	yes	
64156.81c	154.583	ENDF71x	ENDF/B-VII.1	2006	600.0	431126	17414	20.0	yes	no	yes	no	yes	
64156.82c	154.583	ENDF71x	ENDF/B-VII.1	2006	900.0	424494	16585	20.0	yes	no	yes	no	yes	
64156.83c	154.583	ENDF71x	ENDF/B-VII.1	2006	1200.0	420670	16107	20.0	yes	no	yes	no	yes	
64156.84c	154.583	ENDF71x	ENDF/B-VII.1	2006	2500.0	409022	14651	20.0	yes	no	yes	no	yes	
64156.85c	154.583	ENDF71x	ENDF/B-VII.1	2006	0.1	500838	26128	20.0	yes	no	yes	no	yes	
64156.86c	154.583	ENDF71x	ENDF/B-VII.1	2006	250.0	443566	18969	20.0	yes	no	yes	no	yes	
64156.70c	154.583	endf70h	ENDF/B-VII.0	2006	293.6	441988	18799	20	yes	no	yes	no	yes	
64156.71c	154.583	endf70h	ENDF/B-VII.0	2006	600	431699	17513	20	yes	no	yes	no	yes	
64156.72c	154.583	endf70h	ENDF/B-VII.0	2006	900	425067	16684	20	yes	no	yes	no	yes	
64156.73c	154.583	endf70h	ENDF/B-VII.0	2006	1200	421243	16206	20	yes	no	yes	no	yes	
64156.74c	154.583	endf70h	ENDF/B-VII.0	2006	2500	409595	14750	20	yes	no	yes	no	yes	
64156.66c	154.583	endf66b	ENDF/B-VI.0	1977	293.6	79827	7354	20	no	no	no	no	no	
64156.60c	154.583	endf60	ENDF/B-VI.0	1977	293.6	42885	5281	20	no	no	no	no	no	
64156.50c	154.583	endf5u	ENDF/B-V.0	1977	293.6	37371	3964	20	no	no	no	no	no	
64156.55c	154.583	misc5xs	ENDF/B-V.0:T	1986	293.6	44391	3964	20	yes	no	no	no	no	7

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
		14												
64156.710nc	154.583	ENDF71x	ENDF/B-VII.1	2006	293.6	441415	18700	20.0	yes	no	yes	no	yes	
64156.711nc	154.583	ENDF71x	ENDF/B-VII.1	2006	600.0	431126	17414	20.0	yes	no	yes	no	yes	
64156.712nc	154.583	ENDF71x	ENDF/B-VII.1	2006	900.0	424494	16585	20.0	yes	no	yes	no	yes	
64156.713nc	154.583	ENDF71x	ENDF/B-VII.1	2006	1200.0	420670	16107	20.0	yes	no	yes	no	yes	
64156.714nc	154.583	ENDF71x	ENDF/B-VII.1	2006	2500.0	409022	14651	20.0	yes	no	yes	no	yes	
64156.715nc	154.583	ENDF71x	ENDF/B-VII.1	2006	0.1	500838	26128	20.0	yes	no	yes	no	yes	
64156.716nc	154.583	ENDF71x	ENDF/B-VII.1	2006	250.0	443566	18969	20.0	yes	no	yes	no	yes	
Gd-157														
64157.80c	155.576	ENDF71x	ENDF/B-VII.1	2011	293.6	393979	12074	20.0	yes	no	yes	no	yes	
64157.81c	155.576	ENDF71x	ENDF/B-VII.1	2011	600.0	382979	10974	20.0	yes	no	yes	no	yes	
64157.82c	155.576	ENDF71x	ENDF/B-VII.1	2011	900.0	376879	10364	20.0	yes	no	yes	no	yes	
64157.83c	155.576	ENDF71x	ENDF/B-VII.1	2011	1200.0	373080	9984	20.0	yes	no	yes	no	yes	
64157.84c	155.576	ENDF71x	ENDF/B-VII.1	2011	2500.0	358070	8483	20.0	yes	no	yes	no	yes	
64157.85c	155.576	ENDF71x	ENDF/B-VII.1	2011	0.1	435149	16191	20.0	yes	no	yes	no	yes	
64157.86c	155.576	ENDF71x	ENDF/B-VII.1	2011	250.0	396069	12283	20.0	yes	no	yes	no	yes	
64157.70c	155.576	endf70h	ENDF/B-VII.0	2006	293.6	394437	12206	20	yes	no	yes	no	yes	
64157.71c	155.576	endf70h	ENDF/B-VII.0	2006	600	383457	11108	20	yes	no	yes	no	yes	
64157.72c	155.576	endf70h	ENDF/B-VII.0	2006	900	377367	10499	20	yes	no	yes	no	yes	
64157.73c	155.576	endf70h	ENDF/B-VII.0	2006	1200	373578	10120	20	yes	no	yes	no	yes	
64157.74c	155.576	endf70h	ENDF/B-VII.0	2006	2500	358558	8618	20	yes	no	yes	no	yes	
64157.66c	155.576	endf66b	ENDF/B-VI.0	1977	293.6	99199	12007	20	no	no	no	no	yes	
64157.65c	155.576	endf66e	ENDF/B-VI.0	1977	3000.1	71857	8101	20	no	no	no	no	yes	
64157.60c	155.576	endf60	ENDF/B-VI.0	1977	293.6	56957	8368	20	no	no	no	no	no	
64157.50c	155.576	endf5u	ENDF/B-V.0	1977	293.6	38975	5370	20	no	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
64157.55c	155.576	misc5xs	ENDF/B-V.0:T	1986	293.6	47271	5370	20	yes	no	no	no	no	7 14
64157.710nc	155.576	ENDF71x	ENDF/B-VII.1	2011	293.6	393979	12074	20.0	yes	no	yes	no	yes	
64157.711nc	155.576	ENDF71x	ENDF/B-VII.1	2011	600.0	382979	10974	20.0	yes	no	yes	no	yes	
64157.712nc	155.576	ENDF71x	ENDF/B-VII.1	2011	900.0	376879	10364	20.0	yes	no	yes	no	yes	
64157.713nc	155.576	ENDF71x	ENDF/B-VII.1	2011	1200.0	373080	9984	20.0	yes	no	yes	no	yes	
64157.714nc	155.576	ENDF71x	ENDF/B-VII.1	2011	2500.0	358070	8483	20.0	yes	no	yes	no	yes	
64157.715nc	155.576	ENDF71x	ENDF/B-VII.1	2011	0.1	435149	16191	20.0	yes	no	yes	no	yes	
64157.716nc	155.576	ENDF71x	ENDF/B-VII.1	2011	250.0	396069	12283	20.0	yes	no	yes	no	yes	
Gd-158														
64158.80c	156.567	ENDF71x	ENDF/B-VII.1	2006	293.6	439595	21816	20.0	yes	no	yes	no	yes	
64158.81c	156.567	ENDF71x	ENDF/B-VII.1	2006	600.0	430499	20679	20.0	yes	no	yes	no	yes	
64158.82c	156.567	ENDF71x	ENDF/B-VII.1	2006	900.0	425579	20064	20.0	yes	no	yes	no	yes	
64158.83c	156.567	ENDF71x	ENDF/B-VII.1	2006	1200.0	421379	19539	20.0	yes	no	yes	no	yes	
64158.84c	156.567	ENDF71x	ENDF/B-VII.1	2006	2500.0	410403	18167	20.0	yes	no	yes	no	yes	
64158.85c	156.567	ENDF71x	ENDF/B-VII.1	2006	0.1	495275	28776	20.0	yes	no	yes	no	yes	
64158.86c	156.567	ENDF71x	ENDF/B-VII.1	2006	250.0	441555	22061	20.0	yes	no	yes	no	yes	
64158.70c	156.567	endf70h	ENDF/B-VII.0	2006	293.6	440904	21865	20	yes	no	yes	no	yes	
64158.71c	156.567	endf70h	ENDF/B-VII.0	2006	600	431808	20728	20	yes	no	yes	no	yes	
64158.72c	156.567	endf70h	ENDF/B-VII.0	2006	900	426888	20113	20	yes	no	yes	no	yes	
64158.73c	156.567	endf70h	ENDF/B-VII.0	2006	1200	422688	19588	20	yes	no	yes	no	yes	
64158.74c	156.567	endf70h	ENDF/B-VII.0	2006	2500	411712	18216	20	yes	no	yes	no	yes	
64158.66c	156.567	endf66b	ENDF/B-VI.0	1977	293.6	152895	19903	20	no	no	no	no	no	
64158.60c	156.567	endf60	ENDF/B-VI.0	1977	293.6	59210	8909	20	no	no	no	no	no	
64158.50c	156.567	endf5u	ENDF/B-V.0	1977	293.6	95876	15000	20	no	no	no	no	no	

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Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
64158.55c	156.567	misc5xs	ENDF/B-V.0:T	1986	293.6	113916	15000	20	yes	no	no	no	no	7
	14													
64158.710nc	156.567	ENDF71x	ENDF/B-VII.1	2006	293.6	439595	21816	20.0	yes	no	yes	no	yes	
64158.711nc	156.567	ENDF71x	ENDF/B-VII.1	2006	600.0	430499	20679	20.0	yes	no	yes	no	yes	
64158.712nc	156.567	ENDF71x	ENDF/B-VII.1	2006	900.0	425579	20064	20.0	yes	no	yes	no	yes	
64158.713nc	156.567	ENDF71x	ENDF/B-VII.1	2006	1200.0	421379	19539	20.0	yes	no	yes	no	yes	
64158.714nc	156.567	ENDF71x	ENDF/B-VII.1	2006	2500.0	410403	18167	20.0	yes	no	yes	no	yes	
64158.715nc	156.567	ENDF71x	ENDF/B-VII.1	2006	0.1	495275	28776	20.0	yes	no	yes	no	yes	
64158.716nc	156.567	ENDF71x	ENDF/B-VII.1	2006	250.0	441555	22061	20.0	yes	no	yes	no	yes	
Gd-160														
64160.80c	158.553	ENDF71x	ENDF/B-VII.1	2006	293.6	370622	13693	20.0	yes	no	yes	no	yes	
64160.81c	158.553	ENDF71x	ENDF/B-VII.1	2006	600.0	365493	13052	20.0	yes	no	yes	no	yes	
64160.82c	158.553	ENDF71x	ENDF/B-VII.1	2006	900.0	362982	12738	20.0	yes	no	yes	no	yes	
64160.83c	158.553	ENDF71x	ENDF/B-VII.1	2006	1200.0	360973	12487	20.0	yes	no	yes	no	yes	
64160.84c	158.553	ENDF71x	ENDF/B-VII.1	2006	2500.0	355286	11776	20.0	yes	no	yes	no	yes	
64160.85c	158.553	ENDF71x	ENDF/B-VII.1	2006	0.1	401717	17580	20.0	yes	no	yes	no	yes	
64160.86c	158.553	ENDF71x	ENDF/B-VII.1	2006	250.0	371429	13794	20.0	yes	no	yes	no	yes	
64160.70c	158.553	endf70h	ENDF/B-VII.0	2006	293.6	371854	13744	20	yes	no	yes	no	yes	
64160.71c	158.553	endf70h	ENDF/B-VII.0	2006	600	366725	13103	20	yes	no	yes	no	yes	
64160.72c	158.553	endf70h	ENDF/B-VII.0	2006	900	364214	12789	20	yes	no	yes	no	yes	
64160.73c	158.553	endf70h	ENDF/B-VII.0	2006	1200	362205	12538	20	yes	no	yes	no	yes	
64160.74c	158.553	endf70h	ENDF/B-VII.0	2006	2500	356518	11827	20	yes	no	yes	no	yes	
64160.66c	158.553	endf66b	ENDF/B-VI.0	1977	293.6	90407	11183	20	no	no	no	no	no	
64160.60c	158.553	endf60	ENDF/B-VI.0	1977	293.6	54488	8304	20	no	no	no	no	no	
64160.50c	158.553	endf5u	ENDF/B-V.0	1977	293.6	53988	8229	20	no	no	no	no	no	

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Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
64160.55c	158.553	misc5xs	ENDF/B-V.0:T	1986	293.6	65261	8229	20	yes	no	no	no	no	7
	14													
64160.710nc	158.553	ENDF71x	ENDF/B-VII.1	2006	293.6	370622	13693	20.0	yes	no	yes	no	yes	
64160.711nc	158.553	ENDF71x	ENDF/B-VII.1	2006	600.0	365493	13052	20.0	yes	no	yes	no	yes	
64160.712nc	158.553	ENDF71x	ENDF/B-VII.1	2006	900.0	362982	12738	20.0	yes	no	yes	no	yes	
64160.713nc	158.553	ENDF71x	ENDF/B-VII.1	2006	1200.0	360973	12487	20.0	yes	no	yes	no	yes	
64160.714nc	158.553	ENDF71x	ENDF/B-VII.1	2006	2500.0	355286	11776	20.0	yes	no	yes	no	yes	
64160.715nc	158.553	ENDF71x	ENDF/B-VII.1	2006	0.1	401717	17580	20.0	yes	no	yes	no	yes	
64160.716nc	158.553	ENDF71x	ENDF/B-VII.1	2006	250.0	371429	13794	20.0	yes	no	yes	no	yes	
Z = 65, terbium														
Tb-159														
65159.80c	157.56	ENDF71x	ENDF/B-VII.1	2006	293.6	346560	38001	20.0	no	no	no	no	yes	
65159.81c	157.56	ENDF71x	ENDF/B-VII.1	2006	600.0	313598	33292	20.0	no	no	no	no	yes	
65159.82c	157.56	ENDF71x	ENDF/B-VII.1	2006	900.0	292968	30345	20.0	no	no	no	no	yes	
65159.83c	157.56	ENDF71x	ENDF/B-VII.1	2006	1200.0	277352	28114	20.0	no	no	no	no	yes	
65159.84c	157.56	ENDF71x	ENDF/B-VII.1	2006	2500.0	237137	22369	20.0	no	no	no	no	yes	
65159.85c	157.56	ENDF71x	ENDF/B-VII.1	2006	0.1	486505	57993	20.0	no	no	no	no	yes	
65159.86c	157.56	ENDF71x	ENDF/B-VII.1	2006	250.0	353154	38943	20.0	no	no	no	no	yes	
65159.70c	157.56	endf70h	ENDF/B-VII.0	2006	293.6	346338	38035	20	no	no	no	no	yes	
65159.71c	157.56	endf70h	ENDF/B-VII.0	2006	600	313376	33326	20	no	no	no	no	yes	
65159.72c	157.56	endf70h	ENDF/B-VII.0	2006	900	292746	30379	20	no	no	no	no	yes	
65159.73c	157.56	endf70h	ENDF/B-VII.0	2006	1200	277130	28148	20	no	no	no	no	yes	
65159.74c	157.56	endf70h	ENDF/B-VII.0	2006	2500	236915	22403	20	no	no	no	no	yes	
65159.710nc	157.56	ENDF71x	ENDF/B-VII.1	2006	293.6	346560	38001	20.0	no	no	no	no	yes	
65159.711nc	157.56	ENDF71x	ENDF/B-VII.1	2006	600.0	313598	33292	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
65159.712nc	157.56	ENDF71x	ENDF/B-VII.1	2006	900.0	292968	30345	20.0	no	no	no	no	yes	
65159.713nc	157.56	ENDF71x	ENDF/B-VII.1	2006	1200.0	277352	28114	20.0	no	no	no	no	yes	
65159.714nc	157.56	ENDF71x	ENDF/B-VII.1	2006	2500.0	237137	22369	20.0	no	no	no	no	yes	
65159.715nc	157.56	ENDF71x	ENDF/B-VII.1	2006	0.1	486505	57993	20.0	no	no	no	no	yes	
65159.716nc	157.56	ENDF71x	ENDF/B-VII.1	2006	250.0	353154	38943	20.0	no	no	no	no	yes	
Tb-160														
65160.80c	158.553	ENDF71x	ENDF/B-VII.1	2006	293.6	190610	1153	20.0	yes	no	yes	no	yes	
65160.81c	158.553	ENDF71x	ENDF/B-VII.1	2006	600.0	190321	1117	20.0	yes	no	yes	no	yes	
65160.82c	158.553	ENDF71x	ENDF/B-VII.1	2006	900.0	190177	1099	20.0	yes	no	yes	no	yes	
65160.83c	158.553	ENDF71x	ENDF/B-VII.1	2006	1200.0	190065	1085	20.0	yes	no	yes	no	yes	
65160.84c	158.553	ENDF71x	ENDF/B-VII.1	2006	2500.0	189745	1045	20.0	yes	no	yes	no	yes	
65160.85c	158.553	ENDF71x	ENDF/B-VII.1	2006	0.1	190786	1175	20.0	yes	no	yes	no	yes	
65160.86c	158.553	ENDF71x	ENDF/B-VII.1	2006	250.0	190609	1153	20.0	yes	no	yes	no	yes	
65160.70c	158.553	endf70h	ENDF/B-VII.0	2006	293.6	195138	1330	20	yes	no	yes	no	yes	
65160.71c	158.553	endf70h	ENDF/B-VII.0	2006	600	194849	1294	20	yes	no	yes	no	yes	
65160.72c	158.553	endf70h	ENDF/B-VII.0	2006	900	194705	1276	20	yes	no	yes	no	yes	
65160.73c	158.553	endf70h	ENDF/B-VII.0	2006	1200	194593	1262	20	yes	no	yes	no	yes	
65160.74c	158.553	endf70h	ENDF/B-VII.0	2006	2500	194273	1222	20	yes	no	yes	no	yes	
65160.710nc	158.553	ENDF71x	ENDF/B-VII.1	2006	293.6	190610	1153	20.0	yes	no	yes	no	yes	
65160.711nc	158.553	ENDF71x	ENDF/B-VII.1	2006	600.0	190321	1117	20.0	yes	no	yes	no	yes	
65160.712nc	158.553	ENDF71x	ENDF/B-VII.1	2006	900.0	190177	1099	20.0	yes	no	yes	no	yes	
65160.713nc	158.553	ENDF71x	ENDF/B-VII.1	2006	1200.0	190065	1085	20.0	yes	no	yes	no	yes	
65160.714nc	158.553	ENDF71x	ENDF/B-VII.1	2006	2500.0	189745	1045	20.0	yes	no	yes	no	yes	
65160.715nc	158.553	ENDF71x	ENDF/B-VII.1	2006	0.1	190786	1175	20.0	yes	no	yes	no	yes	
65160.716nc	158.553	ENDF71x	ENDF/B-VII.1	2006	250.0	190609	1153	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
					Z = 66, dysprosium									
Dy-156														
66156.80c	154.585	ENDF71x	ENDF/B-VII.1	2006	293.6	265180	5012	20.0	yes	no	yes	no	yes	
66156.81c	154.585	ENDF71x	ENDF/B-VII.1	2006	600.0	262124	4630	20.0	yes	no	yes	no	yes	
66156.82c	154.585	ENDF71x	ENDF/B-VII.1	2006	900.0	259851	4346	20.0	yes	no	yes	no	yes	
66156.83c	154.585	ENDF71x	ENDF/B-VII.1	2006	1200.0	258619	4192	20.0	yes	no	yes	no	yes	
66156.84c	154.585	ENDF71x	ENDF/B-VII.1	2006	2500.0	254979	3737	20.0	yes	no	yes	no	yes	
66156.85c	154.585	ENDF71x	ENDF/B-VII.1	2006	0.1	273131	6006	20.0	yes	no	yes	no	yes	
66156.86c	154.585	ENDF71x	ENDF/B-VII.1	2006	250.0	265675	5074	20.0	yes	no	yes	no	yes	
66156.70c	154.585	endf70h	ENDF/B-VII.0	2006	293.6	259917	5148	20	yes	no	yes	no	no	
66156.71c	154.585	endf70h	ENDF/B-VII.0	2006	600	256861	4766	20	yes	no	yes	no	no	
66156.72c	154.585	endf70h	ENDF/B-VII.0	2006	900	254588	4482	20	yes	no	yes	no	no	
66156.73c	154.585	endf70h	ENDF/B-VII.0	2006	1200	253356	4328	20	yes	no	yes	no	no	
66156.74c	154.585	endf70h	ENDF/B-VII.0	2006	2500	249716	3873	20	yes	no	yes	no	no	
66156.710nc	154.585	ENDF71x	ENDF/B-VII.1	2006	293.6	265180	5012	20.0	yes	no	yes	no	yes	
66156.711nc	154.585	ENDF71x	ENDF/B-VII.1	2006	600.0	262124	4630	20.0	yes	no	yes	no	yes	
66156.712nc	154.585	ENDF71x	ENDF/B-VII.1	2006	900.0	259851	4346	20.0	yes	no	yes	no	yes	
66156.713nc	154.585	ENDF71x	ENDF/B-VII.1	2006	1200.0	258619	4192	20.0	yes	no	yes	no	yes	
66156.714nc	154.585	ENDF71x	ENDF/B-VII.1	2006	2500.0	254979	3737	20.0	yes	no	yes	no	yes	
66156.715nc	154.585	ENDF71x	ENDF/B-VII.1	2006	0.1	273131	6006	20.0	yes	no	yes	no	yes	
66156.716nc	154.585	ENDF71x	ENDF/B-VII.1	2006	250.0	265675	5074	20.0	yes	no	yes	no	yes	
Dy-158														
66158.80c	156.568	ENDF71x	ENDF/B-VII.1	2006	293.6	239647	1720	20.0	yes	no	yes	no	yes	
66158.81c	156.568	ENDF71x	ENDF/B-VII.1	2006	600.0	239248	1670	20.0	yes	no	yes	no	yes	
66158.82c	156.568	ENDF71x	ENDF/B-VII.1	2006	900.0	238951	1633	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
66158.83c	156.568	ENDF71x	ENDF/B-VII.1	2006	1200.0	238943	1632	20.0	yes	no	yes	no	yes	
66158.84c	156.568	ENDF71x	ENDF/B-VII.1	2006	2500.0	238239	1544	20.0	yes	no	yes	no	yes	
66158.85c	156.568	ENDF71x	ENDF/B-VII.1	2006	0.1	241047	1895	20.0	yes	no	yes	no	yes	
66158.86c	156.568	ENDF71x	ENDF/B-VII.1	2006	250.0	239776	1736	20.0	yes	no	yes	no	yes	
66158.70c	156.568	endf70h	ENDF/B-VII.0	2006	293.6	236389	1856	20	yes	no	yes	no	no	
66158.71c	156.568	endf70h	ENDF/B-VII.0	2006	600	235990	1806	20	yes	no	yes	no	no	
66158.72c	156.568	endf70h	ENDF/B-VII.0	2006	900	235693	1769	20	yes	no	yes	no	no	
66158.73c	156.568	endf70h	ENDF/B-VII.0	2006	1200	235685	1768	20	yes	no	yes	no	no	
66158.74c	156.568	endf70h	ENDF/B-VII.0	2006	2500	234981	1680	20	yes	no	yes	no	no	
66158.710nc	156.568	ENDF71x	ENDF/B-VII.1	2006	293.6	239647	1720	20.0	yes	no	yes	no	yes	
66158.711nc	156.568	ENDF71x	ENDF/B-VII.1	2006	600.0	239248	1670	20.0	yes	no	yes	no	yes	
66158.712nc	156.568	ENDF71x	ENDF/B-VII.1	2006	900.0	238951	1633	20.0	yes	no	yes	no	yes	
66158.713nc	156.568	ENDF71x	ENDF/B-VII.1	2006	1200.0	238943	1632	20.0	yes	no	yes	no	yes	
66158.714nc	156.568	ENDF71x	ENDF/B-VII.1	2006	2500.0	238239	1544	20.0	yes	no	yes	no	yes	
66158.715nc	156.568	ENDF71x	ENDF/B-VII.1	2006	0.1	241047	1895	20.0	yes	no	yes	no	yes	
66158.716nc	156.568	ENDF71x	ENDF/B-VII.1	2006	250.0	239776	1736	20.0	yes	no	yes	no	yes	
Dy-160														
66160.80c	158.551	ENDF71x	ENDF/B-VII.1	2006	293.6	344806	17899	20.0	yes	no	yes	no	yes	
66160.81c	158.551	ENDF71x	ENDF/B-VII.1	2006	600.0	336758	16893	20.0	yes	no	yes	no	yes	
66160.82c	158.551	ENDF71x	ENDF/B-VII.1	2006	900.0	330462	16106	20.0	yes	no	yes	no	yes	
66160.83c	158.551	ENDF71x	ENDF/B-VII.1	2006	1200.0	326950	15667	20.0	yes	no	yes	no	yes	
66160.84c	158.551	ENDF71x	ENDF/B-VII.1	2006	2500.0	316358	14343	20.0	yes	no	yes	no	yes	
66160.85c	158.551	ENDF71x	ENDF/B-VII.1	2006	0.1	391887	23784	20.0	yes	no	yes	no	yes	
66160.86c	158.551	ENDF71x	ENDF/B-VII.1	2006	250.0	347110	18187	20.0	yes	no	yes	no	yes	
66160.70c	158.551	endf70h	ENDF/B-VII.0	2006	293.6	345725	18003	20	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
66160.71c	158.551	endf70h	ENDF/B-VII.0	2006	600	337677	16997	20	yes	no	yes	no	yes	
66160.72c	158.551	endf70h	ENDF/B-VII.0	2006	900	331381	16210	20	yes	no	yes	no	yes	
66160.73c	158.551	endf70h	ENDF/B-VII.0	2006	1200	327869	15771	20	yes	no	yes	no	yes	
66160.74c	158.551	endf70h	ENDF/B-VII.0	2006	2500	317277	14447	20	yes	no	yes	no	yes	
66160.710nc	158.551	ENDF71x	ENDF/B-VII.1	2006	293.6	344806	17899	20.0	yes	no	yes	no	yes	
66160.711nc	158.551	ENDF71x	ENDF/B-VII.1	2006	600.0	336758	16893	20.0	yes	no	yes	no	yes	
66160.712nc	158.551	ENDF71x	ENDF/B-VII.1	2006	900.0	330462	16106	20.0	yes	no	yes	no	yes	
66160.713nc	158.551	ENDF71x	ENDF/B-VII.1	2006	1200.0	326950	15667	20.0	yes	no	yes	no	yes	
66160.714nc	158.551	ENDF71x	ENDF/B-VII.1	2006	2500.0	316358	14343	20.0	yes	no	yes	no	yes	
66160.715nc	158.551	ENDF71x	ENDF/B-VII.1	2006	0.1	391887	23784	20.0	yes	no	yes	no	yes	
66160.716nc	158.551	ENDF71x	ENDF/B-VII.1	2006	250.0	347110	18187	20.0	yes	no	yes	no	yes	
Dy-161														
66161.80c	159.544	ENDF71x	ENDF/B-VII.1	2006	293.6	519975	37091	20.0	yes	no	yes	no	yes	
66161.81c	159.544	ENDF71x	ENDF/B-VII.1	2006	600.0	469847	30825	20.0	yes	no	yes	no	yes	
66161.82c	159.544	ENDF71x	ENDF/B-VII.1	2006	900.0	440471	27153	20.0	yes	no	yes	no	yes	
66161.83c	159.544	ENDF71x	ENDF/B-VII.1	2006	1200.0	420087	24605	20.0	yes	no	yes	no	yes	
66161.84c	159.544	ENDF71x	ENDF/B-VII.1	2006	2500.0	372479	18654	20.0	yes	no	yes	no	yes	
66161.85c	159.544	ENDF71x	ENDF/B-VII.1	2006	0.1	700655	59676	20.0	yes	no	yes	no	yes	
66161.86c	159.544	ENDF71x	ENDF/B-VII.1	2006	250.0	529831	38323	20.0	yes	no	yes	no	yes	
66161.70c	159.544	endf70h	ENDF/B-VII.0	2006	293.6	522499	37210	20	yes	no	yes	no	yes	
66161.71c	159.544	endf70h	ENDF/B-VII.0	2006	600	472371	30944	20	yes	no	yes	no	yes	
66161.72c	159.544	endf70h	ENDF/B-VII.0	2006	900	442995	27272	20	yes	no	yes	no	yes	
66161.73c	159.544	endf70h	ENDF/B-VII.0	2006	1200	422611	24724	20	yes	no	yes	no	yes	
66161.74c	159.544	endf70h	ENDF/B-VII.0	2006	2500	375003	18773	20	yes	no	yes	no	yes	
66161.710nc	159.544	ENDF71x	ENDF/B-VII.1	2006	293.6	519975	37091	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
66161.711nc	159.544	ENDF71x	ENDF/B-VII.1	2006	600.0	469847	30825	20.0	yes	no	yes	no	yes	
66161.712nc	159.544	ENDF71x	ENDF/B-VII.1	2006	900.0	440471	27153	20.0	yes	no	yes	no	yes	
66161.713nc	159.544	ENDF71x	ENDF/B-VII.1	2006	1200.0	420087	24605	20.0	yes	no	yes	no	yes	
66161.714nc	159.544	ENDF71x	ENDF/B-VII.1	2006	2500.0	372479	18654	20.0	yes	no	yes	no	yes	
66161.715nc	159.544	ENDF71x	ENDF/B-VII.1	2006	0.1	700655	59676	20.0	yes	no	yes	no	yes	
66161.716nc	159.544	ENDF71x	ENDF/B-VII.1	2006	250.0	529831	38323	20.0	yes	no	yes	no	yes	
Dy-162														
66162.80c	160.536	ENDF71x	ENDF/B-VII.1	2006	293.6	368353	19282	20.0	yes	no	yes	no	yes	
66162.81c	160.536	ENDF71x	ENDF/B-VII.1	2006	600.0	360738	18330	20.0	yes	no	yes	no	yes	
66162.82c	160.536	ENDF71x	ENDF/B-VII.1	2006	900.0	356625	17816	20.0	yes	no	yes	no	yes	
66162.83c	160.536	ENDF71x	ENDF/B-VII.1	2006	1200.0	352697	17325	20.0	yes	no	yes	no	yes	
66162.84c	160.536	ENDF71x	ENDF/B-VII.1	2006	2500.0	343737	16205	20.0	yes	no	yes	no	yes	
66162.85c	160.536	ENDF71x	ENDF/B-VII.1	2006	0.1	411505	24676	20.0	yes	no	yes	no	yes	
66162.86c	160.536	ENDF71x	ENDF/B-VII.1	2006	250.0	370049	19494	20.0	yes	no	yes	no	yes	
66162.70c	160.536	endf70h	ENDF/B-VII.0	2006	293.6	369239	19363	20	yes	no	yes	no	yes	
66162.71c	160.536	endf70h	ENDF/B-VII.0	2006	600	361624	18411	20	yes	no	yes	no	yes	
66162.72c	160.536	endf70h	ENDF/B-VII.0	2006	900	357511	17897	20	yes	no	yes	no	yes	
66162.73c	160.536	endf70h	ENDF/B-VII.0	2006	1200	353583	17406	20	yes	no	yes	no	yes	
66162.74c	160.536	endf70h	ENDF/B-VII.0	2006	2500	344623	16286	20	yes	no	yes	no	yes	
66162.710nc	160.536	ENDF71x	ENDF/B-VII.1	2006	293.6	368353	19282	20.0	yes	no	yes	no	yes	
66162.711nc	160.536	ENDF71x	ENDF/B-VII.1	2006	600.0	360738	18330	20.0	yes	no	yes	no	yes	
66162.712nc	160.536	ENDF71x	ENDF/B-VII.1	2006	900.0	356625	17816	20.0	yes	no	yes	no	yes	
66162.713nc	160.536	ENDF71x	ENDF/B-VII.1	2006	1200.0	352697	17325	20.0	yes	no	yes	no	yes	
66162.714nc	160.536	ENDF71x	ENDF/B-VII.1	2006	2500.0	343737	16205	20.0	yes	no	yes	no	yes	
66162.715nc	160.536	ENDF71x	ENDF/B-VII.1	2006	0.1	411505	24676	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
66162.716nc	160.536	ENDF71x	ENDF/B-VII.1	2006	250.0	370049	19494	20.0	yes	no	yes	no	yes	
Dy-163														
66163.80c	161.529	ENDF71x	ENDF/B-VII.1	2006	293.6	399173	23213	20.0	yes	no	yes	no	yes	
66163.81c	161.529	ENDF71x	ENDF/B-VII.1	2006	600.0	382781	21164	20.0	yes	no	yes	no	yes	
66163.82c	161.529	ENDF71x	ENDF/B-VII.1	2006	900.0	371845	19797	20.0	yes	no	yes	no	yes	
66163.83c	161.529	ENDF71x	ENDF/B-VII.1	2006	1200.0	363189	18715	20.0	yes	no	yes	no	yes	
66163.84c	161.529	ENDF71x	ENDF/B-VII.1	2006	2500.0	342381	16114	20.0	yes	no	yes	no	yes	
66163.85c	161.529	ENDF71x	ENDF/B-VII.1	2006	0.1	467061	31699	20.0	yes	no	yes	no	yes	
66163.86c	161.529	ENDF71x	ENDF/B-VII.1	2006	250.0	402893	23678	20.0	yes	no	yes	no	yes	
66163.70c	161.529	endf70h	ENDF/B-VII.0	2006	293.6	400160	23331	20	yes	no	yes	no	yes	
66163.71c	161.529	endf70h	ENDF/B-VII.0	2006	600	383768	21282	20	yes	no	yes	no	yes	
66163.72c	161.529	endf70h	ENDF/B-VII.0	2006	900	372832	19915	20	yes	no	yes	no	yes	
66163.73c	161.529	endf70h	ENDF/B-VII.0	2006	1200	364176	18833	20	yes	no	yes	no	yes	
66163.74c	161.529	endf70h	ENDF/B-VII.0	2006	2500	343368	16232	20	yes	no	yes	no	yes	
66163.710nc	161.529	ENDF71x	ENDF/B-VII.1	2006	293.6	399173	23213	20.0	yes	no	yes	no	yes	
66163.711nc	161.529	ENDF71x	ENDF/B-VII.1	2006	600.0	382781	21164	20.0	yes	no	yes	no	yes	
66163.712nc	161.529	ENDF71x	ENDF/B-VII.1	2006	900.0	371845	19797	20.0	yes	no	yes	no	yes	
66163.713nc	161.529	ENDF71x	ENDF/B-VII.1	2006	1200.0	363189	18715	20.0	yes	no	yes	no	yes	
66163.714nc	161.529	ENDF71x	ENDF/B-VII.1	2006	2500.0	342381	16114	20.0	yes	no	yes	no	yes	
66163.715nc	161.529	ENDF71x	ENDF/B-VII.1	2006	0.1	467061	31699	20.0	yes	no	yes	no	yes	
66163.716nc	161.529	ENDF71x	ENDF/B-VII.1	2006	250.0	402893	23678	20.0	yes	no	yes	no	yes	
Dy-164														
66164.80c	162.521	ENDF71x	ENDF/B-VII.1	2006	293.6	324928	15629	20.0	yes	no	yes	no	yes	
66164.81c	162.521	ENDF71x	ENDF/B-VII.1	2006	600.0	320673	15097	20.0	yes	no	yes	no	yes	
66164.82c	162.521	ENDF71x	ENDF/B-VII.1	2006	900.0	316168	14534	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
66164.83c	162.521	ENDF71x	ENDF/B-VII.1	2006	1200.0	313744	14231	20.0	yes	no	yes	no	yes	
66164.84c	162.521	ENDF71x	ENDF/B-VII.1	2006	2500.0	307305	13426	20.0	yes	no	yes	no	yes	
66164.85c	162.521	ENDF71x	ENDF/B-VII.1	2006	0.1	360880	20123	20.0	yes	no	yes	no	yes	
66164.86c	162.521	ENDF71x	ENDF/B-VII.1	2006	250.0	326032	15767	20.0	yes	no	yes	no	yes	
66164.70c	162.521	endf70h	ENDF/B-VII.0	2006	293.6	325796	15717	20	yes	no	yes	no	yes	
66164.71c	162.521	endf70h	ENDF/B-VII.0	2006	600	321541	15185	20	yes	no	yes	no	yes	
66164.72c	162.521	endf70h	ENDF/B-VII.0	2006	900	317036	14622	20	yes	no	yes	no	yes	
66164.73c	162.521	endf70h	ENDF/B-VII.0	2006	1200	314612	14319	20	yes	no	yes	no	yes	
66164.74c	162.521	endf70h	ENDF/B-VII.0	2006	2500	308173	13514	20	yes	no	yes	no	yes	
66164.710nc	162.521	ENDF71x	ENDF/B-VII.1	2006	293.6	324928	15629	20.0	yes	no	yes	no	yes	
66164.711nc	162.521	ENDF71x	ENDF/B-VII.1	2006	600.0	320673	15097	20.0	yes	no	yes	no	yes	
66164.712nc	162.521	ENDF71x	ENDF/B-VII.1	2006	900.0	316168	14534	20.0	yes	no	yes	no	yes	
66164.713nc	162.521	ENDF71x	ENDF/B-VII.1	2006	1200.0	313744	14231	20.0	yes	no	yes	no	yes	
66164.714nc	162.521	ENDF71x	ENDF/B-VII.1	2006	2500.0	307305	13426	20.0	yes	no	yes	no	yes	
66164.715nc	162.521	ENDF71x	ENDF/B-VII.1	2006	0.1	360880	20123	20.0	yes	no	yes	no	yes	
66164.716nc	162.521	ENDF71x	ENDF/B-VII.1	2006	250.0	326032	15767	20.0	yes	no	yes	no	yes	
				Z = 67, holmium										
Ho-165														
67165.80c	163.513	ENDF71x	ENDF/B-VII.1	2006	293.6	337695	36221	30.0	yes	no	no	no	no	
67165.81c	163.513	ENDF71x	ENDF/B-VII.1	2006	600.0	299703	31472	30.0	yes	no	no	no	no	
67165.82c	163.513	ENDF71x	ENDF/B-VII.1	2006	900.0	276639	28589	30.0	yes	no	no	no	no	
67165.83c	163.513	ENDF71x	ENDF/B-VII.1	2006	1200.0	261055	26641	30.0	yes	no	no	no	no	
67165.84c	163.513	ENDF71x	ENDF/B-VII.1	2006	2500.0	219431	21438	30.0	yes	no	no	no	no	
67165.85c	163.513	ENDF71x	ENDF/B-VII.1	2006	0.1	528495	60071	30.0	yes	no	no	no	no	
67165.86c	163.513	ENDF71x	ENDF/B-VII.1	2006	250.0	346615	37336	30.0	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
67165.70c	163.513	endf70h	ENDF/B-VII.0	2006	293.6	337892	36244	30	yes	no	no	no	no	
67165.71c	163.513	endf70h	ENDF/B-VII.0	2006	600	299900	31495	30	yes	no	no	no	no	
67165.72c	163.513	endf70h	ENDF/B-VII.0	2006	900	276836	28612	30	yes	no	no	no	no	
67165.73c	163.513	endf70h	ENDF/B-VII.0	2006	1200	261252	26664	30	yes	no	no	no	no	
67165.74c	163.513	endf70h	ENDF/B-VII.0	2006	2500	219628	21461	30	yes	no	no	no	no	
67165.66c	163.513	endf66b	ENDF/B-VI.5	1988	293.6	101124	6648	30	yes	no	no	no	no	
67165.60c	163.513	endf60	ENDF/B-VI.0	1988	293.6	75307	4688	30	yes	no	no	no	no	
67165.55c	163.513	newxs	LANL/T	1986	293.6	56605	2426	30	yes	no	no	no	no	
67165.35c	163.5135	rmccsa	LLNL	<1985	0	54279	7075	20	yes	no	no	no	no	
67165.42c	163.5135	endl92	LLNL	<1992	300	103467	13884	30	yes	no	no	no	no	
67165.710nc	163.513	ENDF71x	ENDF/B-VII.1	2006	293.6	337695	36221	30.0	yes	no	no	no	no	
67165.711nc	163.513	ENDF71x	ENDF/B-VII.1	2006	600.0	299703	31472	30.0	yes	no	no	no	no	
67165.712nc	163.513	ENDF71x	ENDF/B-VII.1	2006	900.0	276639	28589	30.0	yes	no	no	no	no	
67165.713nc	163.513	ENDF71x	ENDF/B-VII.1	2006	1200.0	261055	26641	30.0	yes	no	no	no	no	
67165.714nc	163.513	ENDF71x	ENDF/B-VII.1	2006	2500.0	219431	21438	30.0	yes	no	no	no	no	
67165.715nc	163.513	ENDF71x	ENDF/B-VII.1	2006	0.1	528495	60071	30.0	yes	no	no	no	no	
67165.716nc	163.513	ENDF71x	ENDF/B-VII.1	2006	250.0	346615	37336	30.0	yes	no	no	no	no	
Ho-166														
1067166.710nc	164.507	ENDF71x	ENDF/B-VII.1	2006	293.6	215036	1711	20.0	yes	no	yes	no	yes	
1067166.711nc	164.507	ENDF71x	ENDF/B-VII.1	2006	600.0	215019	1709	20.0	yes	no	yes	no	yes	
1067166.712nc	164.507	ENDF71x	ENDF/B-VII.1	2006	900.0	214747	1675	20.0	yes	no	yes	no	yes	
1067166.713nc	164.507	ENDF71x	ENDF/B-VII.1	2006	1200.0	214619	1659	20.0	yes	no	yes	no	yes	
1067166.714nc	164.507	ENDF71x	ENDF/B-VII.1	2006	2500.0	214035	1586	20.0	yes	no	yes	no	yes	
1067166.715nc	164.507	ENDF71x	ENDF/B-VII.1	2006	0.1	215235	1736	20.0	yes	no	yes	no	yes	
1067166.716nc	164.507	ENDF71x	ENDF/B-VII.1	2006	250.0	215116	1721	20.0	yes	no	yes	no	yes	

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
Ho-566														
67566.80c	164.507	ENDF71x	ENDF/B-VII.1	2006	293.6	215036	1711	20.0	yes	no	yes	no	yes	
67566.81c	164.507	ENDF71x	ENDF/B-VII.1	2006	600.0	215019	1709	20.0	yes	no	yes	no	yes	
67566.82c	164.507	ENDF71x	ENDF/B-VII.1	2006	900.0	214747	1675	20.0	yes	no	yes	no	yes	
67566.83c	164.507	ENDF71x	ENDF/B-VII.1	2006	1200.0	214619	1659	20.0	yes	no	yes	no	yes	
67566.84c	164.507	ENDF71x	ENDF/B-VII.1	2006	2500.0	214035	1586	20.0	yes	no	yes	no	yes	
67566.85c	164.507	ENDF71x	ENDF/B-VII.1	2006	0.1	215235	1736	20.0	yes	no	yes	no	yes	
67566.86c	164.507	ENDF71x	ENDF/B-VII.1	2006	250.0	215116	1721	20.0	yes	no	yes	no	yes	
67566.70c	164.507	endf70h	ENDF/B-VII.0	2006	293.6	216991	1855	20	yes	no	yes	no	yes	
67566.71c	164.507	endf70h	ENDF/B-VII.0	2006	600	216974	1853	20	yes	no	yes	no	yes	
67566.72c	164.507	endf70h	ENDF/B-VII.0	2006	900	216702	1819	20	yes	no	yes	no	yes	
67566.73c	164.507	endf70h	ENDF/B-VII.0	2006	1200	216574	1803	20	yes	no	yes	no	yes	
67566.74c	164.507	endf70h	ENDF/B-VII.0	2006	2500	215990	1730	20	yes	no	yes	no	yes	
				Z = 68, erbium										
Er-162														
68162.80c	160.538	ENDF71x	ENDF/B-VII.1	2006	293.6	105961	6057	20.0	yes	no	no	no	no	
68162.81c	160.538	ENDF71x	ENDF/B-VII.1	2006	600.0	103785	5785	20.0	yes	no	no	no	no	
68162.82c	160.538	ENDF71x	ENDF/B-VII.1	2006	900.0	101575	5509	20.0	yes	no	no	no	no	
68162.83c	160.538	ENDF71x	ENDF/B-VII.1	2006	1200.0	100368	5358	20.0	yes	no	no	no	no	
68162.84c	160.538	ENDF71x	ENDF/B-VII.1	2006	2500.0	97745	5030	20.0	yes	no	no	no	no	
68162.85c	160.538	ENDF71x	ENDF/B-VII.1	2006	0.1	113952	7056	20.0	yes	no	no	no	no	
68162.86c	160.538	ENDF71x	ENDF/B-VII.1	2006	250.0	106632	6141	20.0	yes	no	no	no	no	
68162.70c	160.538	endf70h	ENDF/B-VII.0	2006	293.6	106762	6153	20	yes	no	no	no	no	
68162.71c	160.538	endf70h	ENDF/B-VII.0	2006	600	104586	5881	20	yes	no	no	no	no	
68162.72c	160.538	endf70h	ENDF/B-VII.0	2006	900	102376	5605	20	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
68162.73c	160.538	endf70h	ENDF/B-VII.0	2006	1200	101169	5454	20	yes	no	no	no	no	
68162.74c	160.538	endf70h	ENDF/B-VII.0	2006	2500	98546	5126	20	yes	no	no	no	no	
68162.710nc	160.538	ENDF71x	ENDF/B-VII.1	2006	293.6	105961	6057	20.0	yes	no	no	no	no	
68162.711nc	160.538	ENDF71x	ENDF/B-VII.1	2006	600.0	103785	5785	20.0	yes	no	no	no	no	
68162.712nc	160.538	ENDF71x	ENDF/B-VII.1	2006	900.0	101575	5509	20.0	yes	no	no	no	no	
68162.713nc	160.538	ENDF71x	ENDF/B-VII.1	2006	1200.0	100368	5358	20.0	yes	no	no	no	no	
68162.714nc	160.538	ENDF71x	ENDF/B-VII.1	2006	2500.0	97745	5030	20.0	yes	no	no	no	no	
68162.715nc	160.538	ENDF71x	ENDF/B-VII.1	2006	0.1	113952	7056	20.0	yes	no	no	no	no	
68162.716nc	160.538	ENDF71x	ENDF/B-VII.1	2006	250.0	106632	6141	20.0	yes	no	no	no	no	
Er-164														
68164.80c	162.521	ENDF71x	ENDF/B-VII.1	2006	293.6	111187	6956	20.0	yes	no	no	no	no	
68164.81c	162.521	ENDF71x	ENDF/B-VII.1	2006	600.0	108468	6616	20.0	yes	no	no	no	no	
68164.82c	162.521	ENDF71x	ENDF/B-VII.1	2006	900.0	106980	6430	20.0	yes	no	no	no	no	
68164.83c	162.521	ENDF71x	ENDF/B-VII.1	2006	1200.0	105660	6265	20.0	yes	no	no	no	no	
68164.84c	162.521	ENDF71x	ENDF/B-VII.1	2006	2500.0	102485	5868	20.0	yes	no	no	no	no	
68164.85c	162.521	ENDF71x	ENDF/B-VII.1	2006	0.1	121397	8232	20.0	yes	no	no	no	no	
68164.86c	162.521	ENDF71x	ENDF/B-VII.1	2006	250.0	111909	7046	20.0	yes	no	no	no	no	
68164.70c	162.521	endf70h	ENDF/B-VII.0	2006	293.6	112169	7066	20	yes	no	no	no	no	
68164.71c	162.521	endf70h	ENDF/B-VII.0	2006	600	109450	6726	20	yes	no	no	no	no	
68164.72c	162.521	endf70h	ENDF/B-VII.0	2006	900	107962	6540	20	yes	no	no	no	no	
68164.73c	162.521	endf70h	ENDF/B-VII.0	2006	1200	106642	6375	20	yes	no	no	no	no	
68164.74c	162.521	endf70h	ENDF/B-VII.0	2006	2500	103467	5978	20	yes	no	no	no	no	
68164.710nc	162.521	ENDF71x	ENDF/B-VII.1	2006	293.6	111187	6956	20.0	yes	no	no	no	no	
68164.711nc	162.521	ENDF71x	ENDF/B-VII.1	2006	600.0	108468	6616	20.0	yes	no	no	no	no	
68164.712nc	162.521	ENDF71x	ENDF/B-VII.1	2006	900.0	106980	6430	20.0	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
68164.713nc	162.521	ENDF71x	ENDF/B-VII.1	2006	1200.0	105660	6265	20.0	yes	no	no	no	no	
68164.714nc	162.521	ENDF71x	ENDF/B-VII.1	2006	2500.0	102485	5868	20.0	yes	no	no	no	no	
68164.715nc	162.521	ENDF71x	ENDF/B-VII.1	2006	0.1	121397	8232	20.0	yes	no	no	no	no	
68164.716nc	162.521	ENDF71x	ENDF/B-VII.1	2006	250.0	111909	7046	20.0	yes	no	no	no	no	
Er-166														
68166.80c	164.505	ENDF71x	ENDF/B-VII.1	2006	293.6	281792	26482	20.0	yes	no	no	no	no	
68166.81c	164.505	ENDF71x	ENDF/B-VII.1	2006	600.0	268623	24836	20.0	yes	no	no	no	no	
68166.82c	164.505	ENDF71x	ENDF/B-VII.1	2006	900.0	260833	23862	20.0	yes	no	no	no	no	
68166.83c	164.505	ENDF71x	ENDF/B-VII.1	2006	1200.0	254927	23124	20.0	yes	no	no	no	no	
68166.84c	164.505	ENDF71x	ENDF/B-VII.1	2006	2500.0	238945	21126	20.0	yes	no	no	no	no	
68166.85c	164.505	ENDF71x	ENDF/B-VII.1	2006	0.1	366081	37018	20.0	yes	no	no	no	no	
68166.86c	164.505	ENDF71x	ENDF/B-VII.1	2006	250.0	284711	26847	20.0	yes	no	no	no	no	
68166.70c	164.505	endf70h	ENDF/B-VII.0	2006	293.6	282146	26520	20	yes	no	no	no	no	
68166.71c	164.505	endf70h	ENDF/B-VII.0	2006	600	268977	24874	20	yes	no	no	no	no	
68166.72c	164.505	endf70h	ENDF/B-VII.0	2006	900	261187	23900	20	yes	no	no	no	no	
68166.73c	164.505	endf70h	ENDF/B-VII.0	2006	1200	255281	23162	20	yes	no	no	no	no	
68166.74c	164.505	endf70h	ENDF/B-VII.0	2006	2500	239299	21164	20	yes	no	no	no	no	
68166.710nc	164.505	ENDF71x	ENDF/B-VII.1	2006	293.6	281792	26482	20.0	yes	no	no	no	no	
68166.711nc	164.505	ENDF71x	ENDF/B-VII.1	2006	600.0	268623	24836	20.0	yes	no	no	no	no	
68166.712nc	164.505	ENDF71x	ENDF/B-VII.1	2006	900.0	260833	23862	20.0	yes	no	no	no	no	
68166.713nc	164.505	ENDF71x	ENDF/B-VII.1	2006	1200.0	254927	23124	20.0	yes	no	no	no	no	
68166.714nc	164.505	ENDF71x	ENDF/B-VII.1	2006	2500.0	238945	21126	20.0	yes	no	no	no	no	
68166.715nc	164.505	ENDF71x	ENDF/B-VII.1	2006	0.1	366081	37018	20.0	yes	no	no	no	no	
68166.716nc	164.505	ENDF71x	ENDF/B-VII.1	2006	250.0	284711	26847	20.0	yes	no	no	no	no	
Er-167														

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
68167.80c	165.498	ENDF71x	ENDF/B-VII.1	2006	293.6	425449	43615	20.0	yes	no	no	no	yes	
68167.81c	165.498	ENDF71x	ENDF/B-VII.1	2006	600.0	381154	38078	20.0	yes	no	no	no	yes	
68167.82c	165.498	ENDF71x	ENDF/B-VII.1	2006	900.0	351913	34423	20.0	yes	no	no	no	yes	
68167.83c	165.498	ENDF71x	ENDF/B-VII.1	2006	1200.0	331419	31861	20.0	yes	no	no	no	yes	
68167.84c	165.498	ENDF71x	ENDF/B-VII.1	2006	2500.0	280265	25467	20.0	yes	no	no	no	yes	
68167.85c	165.498	ENDF71x	ENDF/B-VII.1	2006	0.1	626027	68687	20.0	yes	no	no	no	yes	
68167.86c	165.498	ENDF71x	ENDF/B-VII.1	2006	250.0	435201	44834	20.0	yes	no	no	no	yes	
68167.70c	165.498	endf70h	ENDF/B-VII.0	2006	293.6	425917	43659	20	yes	no	no	no	yes	
68167.71c	165.498	endf70h	ENDF/B-VII.0	2006	600	381622	38122	20	yes	no	no	no	yes	
68167.72c	165.498	endf70h	ENDF/B-VII.0	2006	900	352381	34467	20	yes	no	no	no	yes	
68167.73c	165.498	endf70h	ENDF/B-VII.0	2006	1200	331887	31905	20	yes	no	no	no	yes	
68167.74c	165.498	endf70h	ENDF/B-VII.0	2006	2500	280733	25511	20	yes	no	no	no	yes	
68167.710nc	165.498	ENDF71x	ENDF/B-VII.1	2006	293.6	425449	43615	20.0	yes	no	no	no	yes	
68167.711nc	165.498	ENDF71x	ENDF/B-VII.1	2006	600.0	381154	38078	20.0	yes	no	no	no	yes	
68167.712nc	165.498	ENDF71x	ENDF/B-VII.1	2006	900.0	351913	34423	20.0	yes	no	no	no	yes	
68167.713nc	165.498	ENDF71x	ENDF/B-VII.1	2006	1200.0	331419	31861	20.0	yes	no	no	no	yes	
68167.714nc	165.498	ENDF71x	ENDF/B-VII.1	2006	2500.0	280265	25467	20.0	yes	no	no	no	yes	
68167.715nc	165.498	ENDF71x	ENDF/B-VII.1	2006	0.1	626027	68687	20.0	yes	no	no	no	yes	
68167.716nc	165.498	ENDF71x	ENDF/B-VII.1	2006	250.0	435201	44834	20.0	yes	no	no	no	yes	
Er-168														
68168.80c	166.487	ENDF71x	ENDF/B-VII.1	2006	293.6	290022	26630	20.0	yes	no	no	no	no	
68168.81c	166.487	ENDF71x	ENDF/B-VII.1	2006	600.0	278055	25134	20.0	yes	no	no	no	no	
68168.82c	166.487	ENDF71x	ENDF/B-VII.1	2006	900.0	271143	24270	20.0	yes	no	no	no	no	
68168.83c	166.487	ENDF71x	ENDF/B-VII.1	2006	1200.0	266272	23661	20.0	yes	no	no	no	no	
68168.84c	166.487	ENDF71x	ENDF/B-VII.1	2006	2500.0	251807	21853	20.0	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
68168.85c	166.487	ENDF71x	ENDF/B-VII.1	2006	0.1	359295	35289	20.0	yes	no	no	no	no	
68168.86c	166.487	ENDF71x	ENDF/B-VII.1	2006	250.0	292526	26943	20.0	yes	no	no	no	no	
68168.70c	166.487	endf70h	ENDF/B-VII.0	2006	293.6	290136	26661	20	yes	no	no	no	no	
68168.71c	166.487	endf70h	ENDF/B-VII.0	2006	600	278169	25165	20	yes	no	no	no	no	
68168.72c	166.487	endf70h	ENDF/B-VII.0	2006	900	271257	24301	20	yes	no	no	no	no	
68168.73c	166.487	endf70h	ENDF/B-VII.0	2006	1200	266386	23692	20	yes	no	no	no	no	
68168.74c	166.487	endf70h	ENDF/B-VII.0	2006	2500	251921	21884	20	yes	no	no	no	no	
68168.710nc	166.487	ENDF71x	ENDF/B-VII.1	2006	293.6	290022	26630	20.0	yes	no	no	no	no	
68168.711nc	166.487	ENDF71x	ENDF/B-VII.1	2006	600.0	278055	25134	20.0	yes	no	no	no	no	
68168.712nc	166.487	ENDF71x	ENDF/B-VII.1	2006	900.0	271143	24270	20.0	yes	no	no	no	no	
68168.713nc	166.487	ENDF71x	ENDF/B-VII.1	2006	1200.0	266272	23661	20.0	yes	no	no	no	no	
68168.714nc	166.487	ENDF71x	ENDF/B-VII.1	2006	2500.0	251807	21853	20.0	yes	no	no	no	no	
68168.715nc	166.487	ENDF71x	ENDF/B-VII.1	2006	0.1	359295	35289	20.0	yes	no	no	no	no	
68168.716nc	166.487	ENDF71x	ENDF/B-VII.1	2006	250.0	292526	26943	20.0	yes	no	no	no	no	
Er-170														
68170.80c	168.476	ENDF71x	ENDF/B-VII.1	2006	293.6	160824	13101	20.0	yes	no	no	no	yes	
68170.81c	168.476	ENDF71x	ENDF/B-VII.1	2006	600.0	156511	12562	20.0	yes	no	no	no	yes	
68170.82c	168.476	ENDF71x	ENDF/B-VII.1	2006	900.0	154376	12295	20.0	yes	no	no	no	yes	
68170.83c	168.476	ENDF71x	ENDF/B-VII.1	2006	1200.0	152425	12051	20.0	yes	no	no	no	yes	
68170.84c	168.476	ENDF71x	ENDF/B-VII.1	2006	2500.0	147840	11478	20.0	yes	no	no	no	yes	
68170.85c	168.476	ENDF71x	ENDF/B-VII.1	2006	0.1	196416	17550	20.0	yes	no	no	no	yes	
68170.86c	168.476	ENDF71x	ENDF/B-VII.1	2006	250.0	161712	13212	20.0	yes	no	no	no	yes	
68170.70c	168.476	endf70h	ENDF/B-VII.0	2006	293.6	161266	13145	20	yes	no	no	no	yes	
68170.71c	168.476	endf70h	ENDF/B-VII.0	2006	600	156953	12606	20	yes	no	no	no	yes	
68170.72c	168.476	endf70h	ENDF/B-VII.0	2006	900	154818	12339	20	yes	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
68170.73c	168.476	endf70h	ENDF/B-VII.0	2006	1200	152867	12095	20	yes	no	no	no	yes	
68170.74c	168.476	endf70h	ENDF/B-VII.0	2006	2500	148282	11522	20	yes	no	no	no	yes	
68170.710nc	168.476	ENDF71x	ENDF/B-VII.1	2006	293.6	160824	13101	20.0	yes	no	no	no	yes	
68170.711nc	168.476	ENDF71x	ENDF/B-VII.1	2006	600.0	156511	12562	20.0	yes	no	no	no	yes	
68170.712nc	168.476	ENDF71x	ENDF/B-VII.1	2006	900.0	154376	12295	20.0	yes	no	no	no	yes	
68170.713nc	168.476	ENDF71x	ENDF/B-VII.1	2006	1200.0	152425	12051	20.0	yes	no	no	no	yes	
68170.714nc	168.476	ENDF71x	ENDF/B-VII.1	2006	2500.0	147840	11478	20.0	yes	no	no	no	yes	
68170.715nc	168.476	ENDF71x	ENDF/B-VII.1	2006	0.1	196416	17550	20.0	yes	no	no	no	yes	
68170.716nc	168.476	ENDF71x	ENDF/B-VII.1	2006	250.0	161712	13212	20.0	yes	no	no	no	yes	
				Z = 69, thulium										
Tm-168														
69168.80c	166.492	ENDF71x	ENDF/B-VII.1	2011	293.6	496304	1159	30.0	yes	no	yes	no	no	
69168.81c	166.492	ENDF71x	ENDF/B-VII.1	2011	600.0	496008	1148	30.0	yes	no	yes	no	no	
69168.82c	166.492	ENDF71x	ENDF/B-VII.1	2011	900.0	495495	1129	30.0	yes	no	yes	no	no	
69168.83c	166.492	ENDF71x	ENDF/B-VII.1	2011	1200.0	495036	1112	30.0	yes	no	yes	no	no	
69168.84c	166.492	ENDF71x	ENDF/B-VII.1	2011	2500.0	494360	1087	30.0	yes	no	yes	no	no	
69168.85c	166.492	ENDF71x	ENDF/B-VII.1	2011	0.1	497250	1194	30.0	yes	no	yes	no	no	
69168.86c	166.492	ENDF71x	ENDF/B-VII.1	2011	250.0	496467	1165	30.0	yes	no	yes	no	no	
69168.710nc	166.492	ENDF71x	ENDF/B-VII.1	2011	293.6	496304	1159	30.0	yes	no	yes	no	no	
69168.711nc	166.492	ENDF71x	ENDF/B-VII.1	2011	600.0	496008	1148	30.0	yes	no	yes	no	no	
69168.712nc	166.492	ENDF71x	ENDF/B-VII.1	2011	900.0	495495	1129	30.0	yes	no	yes	no	no	
69168.713nc	166.492	ENDF71x	ENDF/B-VII.1	2011	1200.0	495036	1112	30.0	yes	no	yes	no	no	
69168.714nc	166.492	ENDF71x	ENDF/B-VII.1	2011	2500.0	494360	1087	30.0	yes	no	yes	no	no	
69168.715nc	166.492	ENDF71x	ENDF/B-VII.1	2011	0.1	497250	1194	30.0	yes	no	yes	no	no	
69168.716nc	166.492	ENDF71x	ENDF/B-VII.1	2011	250.0	496467	1165	30.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
Tm-169														
69169.80c	167.483	ENDF71x	ENDF/B-VII.1	2011	293.6	1209475	35323	30.0	yes	no	yes	no	yes	
69169.81c	167.483	ENDF71x	ENDF/B-VII.1	2011	600.0	1147915	32083	30.0	yes	no	yes	no	yes	
69169.82c	167.483	ENDF71x	ENDF/B-VII.1	2011	900.0	1107520	29957	30.0	yes	no	yes	no	yes	
69169.83c	167.483	ENDF71x	ENDF/B-VII.1	2011	1200.0	1076456	28322	30.0	yes	no	yes	no	yes	
69169.84c	167.483	ENDF71x	ENDF/B-VII.1	2011	2500.0	990499	23798	30.0	yes	no	yes	no	yes	
69169.85c	167.483	ENDF71x	ENDF/B-VII.1	2011	0.1	1540246	52732	30.0	yes	no	yes	no	yes	
69169.86c	167.483	ENDF71x	ENDF/B-VII.1	2011	250.0	1222147	35990	30.0	yes	no	yes	no	yes	
69169.55c	167.483	misc5xs	LANL/T	1986	300	47941	4738	20	no	no	no	no	no	7
69169.710nc	167.483	ENDF71x	ENDF/B-VII.1	2011	293.6	1209475	35323	30.0	yes	no	yes	no	yes	
69169.711nc	167.483	ENDF71x	ENDF/B-VII.1	2011	600.0	1147915	32083	30.0	yes	no	yes	no	yes	
69169.712nc	167.483	ENDF71x	ENDF/B-VII.1	2011	900.0	1107520	29957	30.0	yes	no	yes	no	yes	
69169.713nc	167.483	ENDF71x	ENDF/B-VII.1	2011	1200.0	1076456	28322	30.0	yes	no	yes	no	yes	
69169.714nc	167.483	ENDF71x	ENDF/B-VII.1	2011	2500.0	990499	23798	30.0	yes	no	yes	no	yes	
69169.715nc	167.483	ENDF71x	ENDF/B-VII.1	2011	0.1	1540246	52732	30.0	yes	no	yes	no	yes	
69169.716nc	167.483	ENDF71x	ENDF/B-VII.1	2011	250.0	1222147	35990	30.0	yes	no	yes	no	yes	
Tm-170														
69170.80c	168.476	ENDF71x	ENDF/B-VII.1	2011	293.6	535226	3840	30.0	yes	no	yes	no	no	
69170.81c	168.476	ENDF71x	ENDF/B-VII.1	2011	600.0	530938	3687	30.0	yes	no	yes	no	no	
69170.82c	168.476	ENDF71x	ENDF/B-VII.1	2011	900.0	527440	3562	30.0	yes	no	yes	no	no	
69170.83c	168.476	ENDF71x	ENDF/B-VII.1	2011	1200.0	525366	3488	30.0	yes	no	yes	no	no	
69170.84c	168.476	ENDF71x	ENDF/B-VII.1	2011	2500.0	519852	3291	30.0	yes	no	yes	no	no	
69170.85c	168.476	ENDF71x	ENDF/B-VII.1	2011	0.1	544660	4177	30.0	yes	no	yes	no	no	
69170.86c	168.476	ENDF71x	ENDF/B-VII.1	2011	250.0	536119	3872	30.0	yes	no	yes	no	no	
69170.710nc	168.476	ENDF71x	ENDF/B-VII.1	2011	293.6	535226	3840	30.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
69170.711nc	168.476	ENDF71x	ENDF/B-VII.1	2011	600.0	530938	3687	30.0	yes	no	yes	no	no	
69170.712nc	168.476	ENDF71x	ENDF/B-VII.1	2011	900.0	527440	3562	30.0	yes	no	yes	no	no	
69170.713nc	168.476	ENDF71x	ENDF/B-VII.1	2011	1200.0	525366	3488	30.0	yes	no	yes	no	no	
69170.714nc	168.476	ENDF71x	ENDF/B-VII.1	2011	2500.0	519852	3291	30.0	yes	no	yes	no	no	
69170.715nc	168.476	ENDF71x	ENDF/B-VII.1	2011	0.1	544660	4177	30.0	yes	no	yes	no	no	
69170.716nc	168.476	ENDF71x	ENDF/B-VII.1	2011	250.0	536119	3872	30.0	yes	no	yes	no	no	
				Z = 71, lutetium										
Lu-175														
71175.80c	173.438	ENDF71x	ENDF/B-VII.1	1998	293.6	140918	18673	20.0	no	no	no	no	yes	
71175.81c	173.438	ENDF71x	ENDF/B-VII.1	1998	600.0	127016	16687	20.0	no	no	no	no	yes	
71175.82c	173.438	ENDF71x	ENDF/B-VII.1	1998	900.0	119057	15550	20.0	no	no	no	no	yes	
71175.83c	173.438	ENDF71x	ENDF/B-VII.1	1998	1200.0	112449	14606	20.0	no	no	no	no	yes	
71175.84c	173.438	ENDF71x	ENDF/B-VII.1	1998	2500.0	94948	12106	20.0	no	no	no	no	yes	
71175.85c	173.438	ENDF71x	ENDF/B-VII.1	1998	0.1	192983	26111	20.0	no	no	no	no	yes	
71175.86c	173.438	ENDF71x	ENDF/B-VII.1	1998	250.0	143745	19077	20.0	no	no	no	no	yes	
71175.70c	173.438	endf70i	ENDF/B-VII.0	1998	293.6	141040	18755	20	no	no	no	no	yes	
71175.71c	173.438	endf70i	ENDF/B-VII.0	1998	600	127138	16769	20	no	no	no	no	yes	
71175.72c	173.438	endf70i	ENDF/B-VII.0	1998	900	119179	15632	20	no	no	no	no	yes	
71175.73c	173.438	endf70i	ENDF/B-VII.0	1998	1200	112571	14688	20	no	no	no	no	yes	
71175.74c	173.438	endf70i	ENDF/B-VII.0	1998	2500	95070	12188	20	no	no	no	no	yes	
71175.66c	173.438	endf66b	ENDF/B-VI.0	1967	293.6	42687	4739	20	no	no	no	no	yes	
71175.65c	173.438	endf66e	ENDF/B-VI.0	1967	3000.1	34931	3631	20	no	no	no	no	yes	
71175.710nc	173.438	ENDF71x	ENDF/B-VII.1	1998	293.6	140918	18673	20.0	no	no	no	no	yes	
71175.711nc	173.438	ENDF71x	ENDF/B-VII.1	1998	600.0	127016	16687	20.0	no	no	no	no	yes	
71175.712nc	173.438	ENDF71x	ENDF/B-VII.1	1998	900.0	119057	15550	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
71175.713nc	173.438	ENDF71x	ENDF/B-VII.1	1998	1200.0	112449	14606	20.0	no	no	no	no	yes	
71175.714nc	173.438	ENDF71x	ENDF/B-VII.1	1998	2500.0	94948	12106	20.0	no	no	no	no	yes	
71175.715nc	173.438	ENDF71x	ENDF/B-VII.1	1998	0.1	192983	26111	20.0	no	no	no	no	yes	
71175.716nc	173.438	ENDF71x	ENDF/B-VII.1	1998	250.0	143745	19077	20.0	no	no	no	no	yes	
Lu-176														
71176.80c	174.43	ENDF71x	ENDF/B-VII.1	1998	293.6	75043	9044	20.0	no	no	no	no	yes	
71176.81c	174.43	ENDF71x	ENDF/B-VII.1	1998	600.0	67553	7974	20.0	no	no	no	no	yes	
71176.82c	174.43	ENDF71x	ENDF/B-VII.1	1998	900.0	64123	7484	20.0	no	no	no	no	yes	
71176.83c	174.43	ENDF71x	ENDF/B-VII.1	1998	1200.0	61323	7084	20.0	no	no	no	no	yes	
71176.84c	174.43	ENDF71x	ENDF/B-VII.1	1998	2500.0	54604	6124	20.0	no	no	no	no	yes	
71176.85c	174.43	ENDF71x	ENDF/B-VII.1	1998	0.1	92655	11560	20.0	no	no	no	no	yes	
71176.86c	174.43	ENDF71x	ENDF/B-VII.1	1998	250.0	76359	9232	20.0	no	no	no	no	yes	
71176.70c	174.43	endf70i	ENDF/B-VII.0	1998	293.6	75049	9148	20	no	no	no	no	yes	
71176.71c	174.43	endf70i	ENDF/B-VII.0	1998	600	67559	8078	20	no	no	no	no	yes	
71176.72c	174.43	endf70i	ENDF/B-VII.0	1998	900	64129	7588	20	no	no	no	no	yes	
71176.73c	174.43	endf70i	ENDF/B-VII.0	1998	1200	61329	7188	20	no	no	no	no	yes	
71176.74c	174.43	endf70i	ENDF/B-VII.0	1998	2500	54610	6228	20	no	no	no	no	yes	
71176.66c	174.43	endf66b	ENDF/B-VI.0	1967	293.6	48096	5428	20	no	no	no	no	yes	
71176.65c	174.43	endf66e	ENDF/B-VI.0	1967	3000.1	37422	3903	20	no	no	no	no	yes	
71176.710nc	174.43	ENDF71x	ENDF/B-VII.1	1998	293.6	75043	9044	20.0	no	no	no	no	yes	
71176.711nc	174.43	ENDF71x	ENDF/B-VII.1	1998	600.0	67553	7974	20.0	no	no	no	no	yes	
71176.712nc	174.43	ENDF71x	ENDF/B-VII.1	1998	900.0	64123	7484	20.0	no	no	no	no	yes	
71176.713nc	174.43	ENDF71x	ENDF/B-VII.1	1998	1200.0	61323	7084	20.0	no	no	no	no	yes	
71176.714nc	174.43	ENDF71x	ENDF/B-VII.1	1998	2500.0	54604	6124	20.0	no	no	no	no	yes	
71176.715nc	174.43	ENDF71x	ENDF/B-VII.1	1998	0.1	92655	11560	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
71176.716nc	174.43	ENDF71x	ENDF/B-VII.1	1998	250.0	76359	9232	20.0	no	no	no	no	yes	
				Z = 72, hafnium										
Hf-0														
72000.60c	176.954	endf60	ENDF/B-VI.0	1976	293.6	84369	13634	20	no	no	no	no	no	
72000.50c	176.954	newxs	ENDF/B-V.0	1976	293.6	52231	8270	20	no	no	no	no	no	
72000.42c	176.9567	endl92	LLNL	<1992	300	108989	14113	30	yes	no	no	no	no	
Hf-174														
72174.80c	172.446	ENDF71x	ENDF/B-VII.1	2009	293.6	78849	4170	20.0	yes	no	no	no	yes	
72174.81c	172.446	ENDF71x	ENDF/B-VII.1	2009	600.0	77377	3986	20.0	yes	no	no	no	yes	
72174.82c	172.446	ENDF71x	ENDF/B-VII.1	2009	900.0	76833	3918	20.0	yes	no	no	no	yes	
72174.83c	172.446	ENDF71x	ENDF/B-VII.1	2009	1200.0	76129	3830	20.0	yes	no	no	no	yes	
72174.84c	172.446	ENDF71x	ENDF/B-VII.1	2009	2500.0	74265	3597	20.0	yes	no	no	no	yes	
72174.85c	172.446	ENDF71x	ENDF/B-VII.1	2009	0.1	81593	4513	20.0	yes	no	no	no	yes	
72174.86c	172.446	ENDF71x	ENDF/B-VII.1	2009	250.0	79105	4202	20.0	yes	no	no	no	yes	
72174.70c	172.446	endf70i	ENDF/B-VII.0	1992	293.6	40126	4556	20	no	no	no	no	yes	
72174.71c	172.446	endf70i	ENDF/B-VII.0	1992	600	38817	4369	20	no	no	no	no	yes	
72174.72c	172.446	endf70i	ENDF/B-VII.0	1992	900	38096	4266	20	no	no	no	no	yes	
72174.73c	172.446	endf70i	ENDF/B-VII.0	1992	1200	37522	4184	20	no	no	no	no	yes	
72174.74c	172.446	endf70i	ENDF/B-VII.0	1992	2500	36234	4000	20	no	no	no	no	yes	
72174.66c	172.446	endf66b	ENDF/B-VI.2	1992	293.6	39545	4473	20	no	no	no	no	yes	
72174.65c	172.446	endf66e	ENDF/B-VI.2	1992	3000.1	35072	3834	20	no	no	no	no	yes	
72174.710nc	172.446	ENDF71x	ENDF/B-VII.1	2009	293.6	78849	4170	20.0	yes	no	no	no	yes	
72174.711nc	172.446	ENDF71x	ENDF/B-VII.1	2009	600.0	77377	3986	20.0	yes	no	no	no	yes	
72174.712nc	172.446	ENDF71x	ENDF/B-VII.1	2009	900.0	76833	3918	20.0	yes	no	no	no	yes	
72174.713nc	172.446	ENDF71x	ENDF/B-VII.1	2009	1200.0	76129	3830	20.0	yes	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
72174.714nc	172.446	ENDF71x	ENDF/B-VII.1	2009	2500.0	74265	3597	20.0	yes	no	no	no	yes	
72174.715nc	172.446	ENDF71x	ENDF/B-VII.1	2009	0.1	81593	4513	20.0	yes	no	no	no	yes	
72174.716nc	172.446	ENDF71x	ENDF/B-VII.1	2009	250.0	79105	4202	20.0	yes	no	no	no	yes	
Hf-176														
72176.80c	174.429	ENDF71x	ENDF/B-VII.1	2009	293.6	117872	7471	20.0	yes	no	no	no	yes	
72176.81c	174.429	ENDF71x	ENDF/B-VII.1	2009	600.0	115560	7182	20.0	yes	no	no	no	yes	
72176.82c	174.429	ENDF71x	ENDF/B-VII.1	2009	900.0	114120	7002	20.0	yes	no	no	no	yes	
72176.83c	174.429	ENDF71x	ENDF/B-VII.1	2009	1200.0	112641	6817	20.0	yes	no	no	no	yes	
72176.84c	174.429	ENDF71x	ENDF/B-VII.1	2009	2500.0	109488	6423	20.0	yes	no	no	no	yes	
72176.85c	174.429	ENDF71x	ENDF/B-VII.1	2009	0.1	128585	8810	20.0	yes	no	no	no	yes	
72176.86c	174.429	ENDF71x	ENDF/B-VII.1	2009	250.0	118545	7555	20.0	yes	no	no	no	yes	
72176.70c	174.43	endf70i	ENDF/B-VII.0	1992	293.6	69513	8827	20	no	no	no	no	yes	
72176.71c	174.43	endf70i	ENDF/B-VII.0	1992	600	66510	8398	20	no	no	no	no	yes	
72176.72c	174.43	endf70i	ENDF/B-VII.0	1992	900	64557	8119	20	no	no	no	no	yes	
72176.73c	174.43	endf70i	ENDF/B-VII.0	1992	1200	63045	7903	20	no	no	no	no	yes	
72176.74c	174.43	endf70i	ENDF/B-VII.0	1992	2500	59482	7394	20	no	no	no	no	yes	
72176.66c	174.43	endf66b	ENDF/B-VI.2	1992	293.6	66727	8429	20	no	no	no	no	yes	
72176.65c	174.43	endf66e	ENDF/B-VI.2	1992	3000.1	55807	6869	20	no	no	no	no	yes	
72176.710nc	174.429	ENDF71x	ENDF/B-VII.1	2009	293.6	117872	7471	20.0	yes	no	no	no	yes	
72176.711nc	174.429	ENDF71x	ENDF/B-VII.1	2009	600.0	115560	7182	20.0	yes	no	no	no	yes	
72176.712nc	174.429	ENDF71x	ENDF/B-VII.1	2009	900.0	114120	7002	20.0	yes	no	no	no	yes	
72176.713nc	174.429	ENDF71x	ENDF/B-VII.1	2009	1200.0	112641	6817	20.0	yes	no	no	no	yes	
72176.714nc	174.429	ENDF71x	ENDF/B-VII.1	2009	2500.0	109488	6423	20.0	yes	no	no	no	yes	
72176.715nc	174.429	ENDF71x	ENDF/B-VII.1	2009	0.1	128585	8810	20.0	yes	no	no	no	yes	
72176.716nc	174.429	ENDF71x	ENDF/B-VII.1	2009	250.0	118545	7555	20.0	yes	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
Hf-177														
72177.80c	175.42	ENDF71x	ENDF/B-VII.1	2009	293.6	250820	25588	20.0	yes	no	no	no	yes	
72177.81c	175.42	ENDF71x	ENDF/B-VII.1	2009	600.0	225908	22474	20.0	yes	no	no	no	yes	
72177.82c	175.42	ENDF71x	ENDF/B-VII.1	2009	900.0	208460	20293	20.0	yes	no	no	no	yes	
72177.83c	175.42	ENDF71x	ENDF/B-VII.1	2009	1200.0	196068	18744	20.0	yes	no	no	no	yes	
72177.84c	175.42	ENDF71x	ENDF/B-VII.1	2009	2500.0	165548	14929	20.0	yes	no	no	no	yes	
72177.85c	175.42	ENDF71x	ENDF/B-VII.1	2009	0.1	353468	38419	20.0	yes	no	no	no	yes	
72177.86c	175.42	ENDF71x	ENDF/B-VII.1	2009	250.0	255652	26192	20.0	yes	no	no	no	yes	
72177.70c	175.423	endf70i	ENDF/B-VII.0	1991	293.6	224374	30779	20	no	no	no	no	yes	
72177.71c	175.423	endf70i	ENDF/B-VII.0	1991	600	197914	26999	20	no	no	no	no	yes	
72177.72c	175.423	endf70i	ENDF/B-VII.0	1991	900	178818	24271	20	no	no	no	no	yes	
72177.73c	175.423	endf70i	ENDF/B-VII.0	1991	1200	165791	22410	20	no	no	no	no	yes	
72177.74c	175.423	endf70i	ENDF/B-VII.0	1991	2500	132821	17700	20	no	no	no	no	yes	
72177.66c	175.423	endf66b	ENDF/B-VI.2	1991	293.6	219075	30022	20	no	no	no	no	yes	
72177.65c	175.423	endf66e	ENDF/B-VI.2	1991	3000.1	115867	15278	20	no	no	no	no	yes	
72177.710nc	175.42	ENDF71x	ENDF/B-VII.1	2009	293.6	250820	25588	20.0	yes	no	no	no	yes	
72177.711nc	175.42	ENDF71x	ENDF/B-VII.1	2009	600.0	225908	22474	20.0	yes	no	no	no	yes	
72177.712nc	175.42	ENDF71x	ENDF/B-VII.1	2009	900.0	208460	20293	20.0	yes	no	no	no	yes	
72177.713nc	175.42	ENDF71x	ENDF/B-VII.1	2009	1200.0	196068	18744	20.0	yes	no	no	no	yes	
72177.714nc	175.42	ENDF71x	ENDF/B-VII.1	2009	2500.0	165548	14929	20.0	yes	no	no	no	yes	
72177.715nc	175.42	ENDF71x	ENDF/B-VII.1	2009	0.1	353468	38419	20.0	yes	no	no	no	yes	
72177.716nc	175.42	ENDF71x	ENDF/B-VII.1	2009	250.0	255652	26192	20.0	yes	no	no	no	yes	
Hf-178														
72178.80c	176.411	ENDF71x	ENDF/B-VII.1	2009	293.6	128802	8894	20.0	yes	no	no	no	yes	
72178.81c	176.411	ENDF71x	ENDF/B-VII.1	2009	600.0	125850	8525	20.0	yes	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
72178.82c	176.411	ENDF71x	ENDF/B-VII.1	2009	900.0	124266	8327	20.0	yes	no	no	no	yes	
72178.83c	176.411	ENDF71x	ENDF/B-VII.1	2009	1200.0	122778	8141	20.0	yes	no	no	no	yes	
72178.84c	176.411	ENDF71x	ENDF/B-VII.1	2009	2500.0	119698	7756	20.0	yes	no	no	no	yes	
72178.85c	176.411	ENDF71x	ENDF/B-VII.1	2009	0.1	142347	10587	20.0	yes	no	no	no	yes	
72178.86c	176.411	ENDF71x	ENDF/B-VII.1	2009	250.0	129211	8945	20.0	yes	no	no	no	yes	
72178.70c	176.415	endf70i	ENDF/B-VII.0	1991	293.6	71724	9187	20	no	no	no	no	yes	
72178.71c	176.415	endf70i	ENDF/B-VII.0	1991	600	68875	8780	20	no	no	no	no	yes	
72178.72c	176.415	endf70i	ENDF/B-VII.0	1991	900	67377	8566	20	no	no	no	no	yes	
72178.73c	176.415	endf70i	ENDF/B-VII.0	1991	1200	66138	8389	20	no	no	no	no	yes	
72178.74c	176.415	endf70i	ENDF/B-VII.0	1991	2500	63149	7962	20	no	no	no	no	yes	
72178.66c	176.415	endf66b	ENDF/B-VI.2	1991	293.6	67580	8595	20	no	no	no	no	yes	
72178.65c	176.415	endf66e	ENDF/B-VI.2	1991	3000.1	58452	7291	20	no	no	no	no	yes	
72178.710nc	176.411	ENDF71x	ENDF/B-VII.1	2009	293.6	128802	8894	20.0	yes	no	no	no	yes	
72178.711nc	176.411	ENDF71x	ENDF/B-VII.1	2009	600.0	125850	8525	20.0	yes	no	no	no	yes	
72178.712nc	176.411	ENDF71x	ENDF/B-VII.1	2009	900.0	124266	8327	20.0	yes	no	no	no	yes	
72178.713nc	176.411	ENDF71x	ENDF/B-VII.1	2009	1200.0	122778	8141	20.0	yes	no	no	no	yes	
72178.714nc	176.411	ENDF71x	ENDF/B-VII.1	2009	2500.0	119698	7756	20.0	yes	no	no	no	yes	
72178.715nc	176.411	ENDF71x	ENDF/B-VII.1	2009	0.1	142347	10587	20.0	yes	no	no	no	yes	
72178.716nc	176.411	ENDF71x	ENDF/B-VII.1	2009	250.0	129211	8945	20.0	yes	no	no	no	yes	
Hf-179														
72179.80c	177.413	ENDF71x	ENDF/B-VII.1	2009	293.6	191320	18862	20.0	yes	no	no	no	yes	
72179.81c	177.413	ENDF71x	ENDF/B-VII.1	2009	600.0	178328	17238	20.0	yes	no	no	no	yes	
72179.82c	177.413	ENDF71x	ENDF/B-VII.1	2009	900.0	168608	16023	20.0	yes	no	no	no	yes	
72179.83c	177.413	ENDF71x	ENDF/B-VII.1	2009	1200.0	162729	15288	20.0	yes	no	no	no	yes	
72179.84c	177.413	ENDF71x	ENDF/B-VII.1	2009	2500.0	143480	12882	20.0	yes	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
72179.85c	177.413	ENDF71x	ENDF/B-VII.1	2009	0.1	249705	26160	20.0	yes	no	no	no	yes	
72179.86c	177.413	ENDF71x	ENDF/B-VII.1	2009	250.0	194297	19234	20.0	yes	no	no	no	yes	
72179.70c	177.409	endf70i	ENDF/B-VII.0	1991	293.6	107662	14227	20	no	no	no	no	yes	
72179.71c	177.409	endf70i	ENDF/B-VII.0	1991	600	101670	13371	20	no	no	no	no	yes	
72179.72c	177.409	endf70i	ENDF/B-VII.0	1991	900	97631	12794	20	no	no	no	no	yes	
72179.73c	177.409	endf70i	ENDF/B-VII.0	1991	1200	94201	12304	20	no	no	no	no	yes	
72179.74c	177.409	endf70i	ENDF/B-VII.0	1991	2500	84303	10890	20	no	no	no	no	yes	
72179.66c	177.409	endf66b	ENDF/B-VI.2	1992	293.6	106850	14111	20	no	no	no	no	yes	
72179.65c	177.409	endf66e	ENDF/B-VI.2	1992	3000.1	79130	10151	20	no	no	no	no	yes	
72179.710nc	177.413	ENDF71x	ENDF/B-VII.1	2009	293.6	191320	18862	20.0	yes	no	no	no	yes	
72179.711nc	177.413	ENDF71x	ENDF/B-VII.1	2009	600.0	178328	17238	20.0	yes	no	no	no	yes	
72179.712nc	177.413	ENDF71x	ENDF/B-VII.1	2009	900.0	168608	16023	20.0	yes	no	no	no	yes	
72179.713nc	177.413	ENDF71x	ENDF/B-VII.1	2009	1200.0	162729	15288	20.0	yes	no	no	no	yes	
72179.714nc	177.413	ENDF71x	ENDF/B-VII.1	2009	2500.0	143480	12882	20.0	yes	no	no	no	yes	
72179.715nc	177.413	ENDF71x	ENDF/B-VII.1	2009	0.1	249705	26160	20.0	yes	no	no	no	yes	
72179.716nc	177.413	ENDF71x	ENDF/B-VII.1	2009	250.0	194297	19234	20.0	yes	no	no	no	yes	
Hf-180														
72180.80c	178.404	ENDF71x	ENDF/B-VII.1	2009	293.6	136142	12326	20.0	yes	no	no	no	yes	
72180.81c	178.404	ENDF71x	ENDF/B-VII.1	2009	600.0	132207	11834	20.0	yes	no	no	no	yes	
72180.82c	178.404	ENDF71x	ENDF/B-VII.1	2009	900.0	128670	11392	20.0	yes	no	no	no	yes	
72180.83c	178.404	ENDF71x	ENDF/B-VII.1	2009	1200.0	126518	11123	20.0	yes	no	no	no	yes	
72180.84c	178.404	ENDF71x	ENDF/B-VII.1	2009	2500.0	121391	10482	20.0	yes	no	no	no	yes	
72180.85c	178.404	ENDF71x	ENDF/B-VII.1	2009	0.1	165239	15963	20.0	yes	no	no	no	yes	
72180.86c	178.404	ENDF71x	ENDF/B-VII.1	2009	250.0	137078	12443	20.0	yes	no	no	no	yes	
72180.70c	178.401	endf70i	ENDF/B-VII.0	1991	293.6	169564	23242	20	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
72180.71c	178.401	endf70i	ENDF/B-VII.0	1991	600	161430	22080	20	no	no	no	no	yes	
72180.72c	178.401	endf70i	ENDF/B-VII.0	1991	900	155277	21201	20	no	no	no	no	yes	
72180.73c	178.401	endf70i	ENDF/B-VII.0	1991	1200	151091	20603	20	no	no	no	no	yes	
72180.74c	178.401	endf70i	ENDF/B-VII.0	1991	2500	140101	19033	20	no	no	no	no	yes	
72180.66c	178.401	endf66b	ENDF/B-VI.2	1991	293.6	145939	19867	20	no	no	no	no	yes	
72180.65c	178.401	endf66e	ENDF/B-VI.2	1991	3000.1	112444	15082	20	no	no	no	no	yes	
72180.710nc	178.404	ENDF71x	ENDF/B-VII.1	2009	293.6	136142	12326	20.0	yes	no	no	no	yes	
72180.711nc	178.404	ENDF71x	ENDF/B-VII.1	2009	600.0	132207	11834	20.0	yes	no	no	no	yes	
72180.712nc	178.404	ENDF71x	ENDF/B-VII.1	2009	900.0	128670	11392	20.0	yes	no	no	no	yes	
72180.713nc	178.404	ENDF71x	ENDF/B-VII.1	2009	1200.0	126518	11123	20.0	yes	no	no	no	yes	
72180.714nc	178.404	ENDF71x	ENDF/B-VII.1	2009	2500.0	121391	10482	20.0	yes	no	no	no	yes	
72180.715nc	178.404	ENDF71x	ENDF/B-VII.1	2009	0.1	165239	15963	20.0	yes	no	no	no	yes	
72180.716nc	178.404	ENDF71x	ENDF/B-VII.1	2009	250.0	137078	12443	20.0	yes	no	no	no	yes	
					Z = 73, tantalum									
Ta-180														
73180.80c	178.4016	ENDF71x	ENDF/B-VII.1	2011	293.6	826090	556	20.0	yes	no	yes	no	no	
73180.81c	178.4016	ENDF71x	ENDF/B-VII.1	2011	600.0	826547	583	20.0	yes	no	yes	no	no	
73180.82c	178.4016	ENDF71x	ENDF/B-VII.1	2011	900.0	826717	593	20.0	yes	no	yes	no	no	
73180.83c	178.4016	ENDF71x	ENDF/B-VII.1	2011	1200.0	826888	603	20.0	yes	no	yes	no	no	
73180.84c	178.4016	ENDF71x	ENDF/B-VII.1	2011	2500.0	827160	619	20.0	yes	no	yes	no	no	
73180.85c	178.4016	ENDF71x	ENDF/B-VII.1	2011	0.1	823674	414	20.0	yes	no	yes	no	no	
73180.86c	178.4016	ENDF71x	ENDF/B-VII.1	2011	250.0	825902	545	20.0	yes	no	yes	no	no	
73180.710nc	178.4016	ENDF71x	ENDF/B-VII.1	2011	293.6	826090	556	20.0	yes	no	yes	no	no	
73180.711nc	178.4016	ENDF71x	ENDF/B-VII.1	2011	600.0	826547	583	20.0	yes	no	yes	no	no	
73180.712nc	178.4016	ENDF71x	ENDF/B-VII.1	2011	900.0	826717	593	20.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
73180.713nc	178.4016	ENDF71x	ENDF/B-VII.1	2011	1200.0	826888	603	20.0	yes	no	yes	no	no	
73180.714nc	178.4016	ENDF71x	ENDF/B-VII.1	2011	2500.0	827160	619	20.0	yes	no	yes	no	no	
73180.715nc	178.4016	ENDF71x	ENDF/B-VII.1	2011	0.1	823674	414	20.0	yes	no	yes	no	no	
73180.716nc	178.4016	ENDF71x	ENDF/B-VII.1	2011	250.0	825902	545	20.0	yes	no	yes	no	no	
Ta-181														
73181.80c	179.3936	ENDF71x	ENDF/B-VII.1	2011	293.6	983691	14806	20.0	yes	no	yes	no	yes	
73181.81c	179.3936	ENDF71x	ENDF/B-VII.1	2011	600.0	962996	13214	20.0	yes	no	yes	no	yes	
73181.82c	179.3936	ENDF71x	ENDF/B-VII.1	2011	900.0	951517	12331	20.0	yes	no	yes	no	yes	
73181.83c	179.3936	ENDF71x	ENDF/B-VII.1	2011	1200.0	944262	11773	20.0	yes	no	yes	no	yes	
73181.84c	179.3936	ENDF71x	ENDF/B-VII.1	2011	2500.0	919107	9838	20.0	yes	no	yes	no	yes	
73181.85c	179.3936	ENDF71x	ENDF/B-VII.1	2011	0.1	1070206	21461	20.0	yes	no	yes	no	yes	
73181.86c	179.3936	ENDF71x	ENDF/B-VII.1	2011	250.0	987916	15131	20.0	yes	no	yes	no	yes	
73181.70c	179.4	endf70i	ENDF/B-VII.0	1972	293.6	141529	15025	20	yes	no	no	no	no	
73181.71c	179.4	endf70i	ENDF/B-VII.0	1972	600	128819	13436	20	yes	no	no	no	no	
73181.72c	179.4	endf70i	ENDF/B-VII.0	1972	900	121811	12560	20	yes	no	no	no	no	
73181.73c	179.4	endf70i	ENDF/B-VII.0	1972	1200	117339	12001	20	yes	no	no	no	no	
73181.74c	179.4	endf70i	ENDF/B-VII.0	1972	2500	101801	10059	20	yes	no	no	no	no	
73181.66c	179.4	endf66b	ENDF/B-VI.0	1972	293.6	140345	14877	20	yes	no	no	no	no	
73181.64c	179.4	endf66d	ENDF/B-VI.0	1972	77	158545	17152	20	yes	no	no	no	no	
73181.60c	179.4	endf60	ENDF/B-VI.0	1972	293.6	91374	10352	20	yes	no	no	no	no	
73181.51c	179.4	rmccs	ENDF/B-V.0	1972	293.6	21527	753	20	yes	no	no	no	no	
73181.50c	179.4	endf5u	ENDF/B-V.0	1972	293.6	60740	6341	20	yes	no	no	no	no	
73181.42c	179.3936	endl92	LLNL	<1992	300	47852	4927	30	yes	no	no	no	no	
73181.710nc	179.3936	ENDF71x	ENDF/B-VII.1	2011	293.6	983691	14806	20.0	yes	no	yes	no	yes	
73181.711nc	179.3936	ENDF71x	ENDF/B-VII.1	2011	600.0	962996	13214	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
73181.712nc	179.3936	ENDF71x	ENDF/B-VII.1	2011	900.0	951517	12331	20.0	yes	no	yes	no	yes	
73181.713nc	179.3936	ENDF71x	ENDF/B-VII.1	2011	1200.0	944262	11773	20.0	yes	no	yes	no	yes	
73181.714nc	179.3936	ENDF71x	ENDF/B-VII.1	2011	2500.0	919107	9838	20.0	yes	no	yes	no	yes	
73181.715nc	179.3936	ENDF71x	ENDF/B-VII.1	2011	0.1	1070206	21461	20.0	yes	no	yes	no	yes	
73181.716nc	179.3936	ENDF71x	ENDF/B-VII.1	2011	250.0	987916	15131	20.0	yes	no	yes	no	yes	
Ta-182														
73182.80c	180.387	ENDF71x	ENDF/B-VII.1	1971	293.6	29134	2686	20.0	no	no	no	no	yes	
73182.81c	180.387	ENDF71x	ENDF/B-VII.1	1971	600.0	28168	2548	20.0	no	no	no	no	yes	
73182.82c	180.387	ENDF71x	ENDF/B-VII.1	1971	900.0	27349	2431	20.0	no	no	no	no	yes	
73182.83c	180.387	ENDF71x	ENDF/B-VII.1	1971	1200.0	27006	2382	20.0	no	no	no	no	yes	
73182.84c	180.387	ENDF71x	ENDF/B-VII.1	1971	2500.0	26299	2281	20.0	no	no	no	no	yes	
73182.85c	180.387	ENDF71x	ENDF/B-VII.1	1971	0.1	31696	3052	20.0	no	no	no	no	yes	
73182.86c	180.387	ENDF71x	ENDF/B-VII.1	1971	250.0	29351	2717	20.0	no	no	no	no	yes	
73182.70c	180.387	endf70i	ENDF/B-VII.0	1971	293.6	28409	2816	20	no	no	no	no	yes	
73182.71c	180.387	endf70i	ENDF/B-VII.0	1971	600	27443	2678	20	no	no	no	no	yes	
73182.72c	180.387	endf70i	ENDF/B-VII.0	1971	900	26624	2561	20	no	no	no	no	yes	
73182.73c	180.387	endf70i	ENDF/B-VII.0	1971	1200	26281	2512	20	no	no	no	no	yes	
73182.74c	180.387	endf70i	ENDF/B-VII.0	1971	2500	25574	2411	20	no	no	no	no	yes	
73182.66c	180.387	endf66b	ENDF/B-VI.0	1971	293.6	28577	2840	20	no	no	no	no	yes	
73182.64c	180.387	endf66d	ENDF/B-VI.0	1971	77	29837	3020	20	no	no	no	no	yes	
73182.65c	180.387	endf66e	ENDF/B-VI.0	1971	3000.1	25028	2333	20	no	no	no	no	yes	
73182.60c	180.387	endf60	ENDF/B-VI.0	1971	293.6	12085	1698	20	no	no	no	no	no	
73182.49c	180.387	uresa	ENDF/B-VI.0	1971	300	20850	2463	20	no	no	no	no	yes	
73182.710nc	180.387	ENDF71x	ENDF/B-VII.1	1971	293.6	29134	2686	20.0	no	no	no	no	yes	
73182.711nc	180.387	ENDF71x	ENDF/B-VII.1	1971	600.0	28168	2548	20.0	no	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
73182.712nc	180.387	ENDF71x	ENDF/B-VII.1	1971	900.0	27349	2431	20.0	no	no	no	no	yes	
73182.713nc	180.387	ENDF71x	ENDF/B-VII.1	1971	1200.0	27006	2382	20.0	no	no	no	no	yes	
73182.714nc	180.387	ENDF71x	ENDF/B-VII.1	1971	2500.0	26299	2281	20.0	no	no	no	no	yes	
73182.715nc	180.387	ENDF71x	ENDF/B-VII.1	1971	0.1	31696	3052	20.0	no	no	no	no	yes	
73182.716nc	180.387	ENDF71x	ENDF/B-VII.1	1971	250.0	29351	2717	20.0	no	no	no	no	yes	
				Z = 74, tungsten										
W-0														
74000.55c	182.277	rmccs	ENDF/B-V.2	1982	293.6	50639	1816	20	yes	no	no	no	no	
74000.21c	182.2706	100xs	LANL/T:X	1989	300	194513	21386	100	yes	no	no	no	no	3
W-180														
74180.80c	178.401	ENDF71x	ENDF/B-VII.1	2009	293.6	1085440	2920	150.0	yes	no	yes	no	no	
74180.81c	178.401	ENDF71x	ENDF/B-VII.1	2009	600.0	1085440	2920	150.0	yes	no	yes	no	no	
74180.82c	178.401	ENDF71x	ENDF/B-VII.1	2009	900.0	1085441	2920	150.0	yes	no	yes	no	no	
74180.83c	178.401	ENDF71x	ENDF/B-VII.1	2009	1200.0	1085440	2920	150.0	yes	no	yes	no	no	
74180.84c	178.401	ENDF71x	ENDF/B-VII.1	2009	2500.0	1085440	2920	150.0	yes	no	yes	no	no	
74180.85c	178.401	ENDF71x	ENDF/B-VII.1	2009	0.1	1085456	2922	150.0	yes	no	yes	no	no	
74180.86c	178.401	ENDF71x	ENDF/B-VII.1	2009	250.0	1085440	2920	150.0	yes	no	yes	no	no	
74180.710nc	178.401	ENDF71x	ENDF/B-VII.1	2009	293.6	1085440	2920	150.0	yes	no	yes	no	no	
74180.711nc	178.401	ENDF71x	ENDF/B-VII.1	2009	600.0	1085440	2920	150.0	yes	no	yes	no	no	
74180.712nc	178.401	ENDF71x	ENDF/B-VII.1	2009	900.0	1085441	2920	150.0	yes	no	yes	no	no	
74180.713nc	178.401	ENDF71x	ENDF/B-VII.1	2009	1200.0	1085440	2920	150.0	yes	no	yes	no	no	
74180.714nc	178.401	ENDF71x	ENDF/B-VII.1	2009	2500.0	1085440	2920	150.0	yes	no	yes	no	no	
74180.715nc	178.401	ENDF71x	ENDF/B-VII.1	2009	0.1	1085456	2922	150.0	yes	no	yes	no	no	
74180.716nc	178.401	ENDF71x	ENDF/B-VII.1	2009	250.0	1085440	2920	150.0	yes	no	yes	no	no	
W-182														

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
74182.80c	180.385	ENDF71x	ENDF/B-VII.1	2009	293.6	1340098	26342	150.0	yes	no	yes	no	no	
74182.81c	180.385	ENDF71x	ENDF/B-VII.1	2009	600.0	1337802	26055	150.0	yes	no	yes	no	no	
74182.82c	180.385	ENDF71x	ENDF/B-VII.1	2009	900.0	1336506	25893	150.0	yes	no	yes	no	no	
74182.83c	180.385	ENDF71x	ENDF/B-VII.1	2009	1200.0	1335193	25729	150.0	yes	no	yes	no	no	
74182.84c	180.385	ENDF71x	ENDF/B-VII.1	2009	2500.0	1332674	25414	150.0	yes	no	yes	no	no	
74182.85c	180.385	ENDF71x	ENDF/B-VII.1	2009	0.1	1351058	27712	150.0	yes	no	yes	no	no	
74182.86c	180.385	ENDF71x	ENDF/B-VII.1	2009	250.0	1340361	26375	150.0	yes	no	yes	no	no	
74182.70c	180.39	endf70i	ENDF/B-VII.0	2004	293.6	270982	18395	150	yes	no	yes	no	yes	
74182.71c	180.39	endf70i	ENDF/B-VII.0	2004	600	262814	17374	150	yes	no	yes	no	yes	
74182.72c	180.39	endf70i	ENDF/B-VII.0	2004	900	257715	16729	150	yes	no	yes	no	yes	
74182.73c	180.39	endf70i	ENDF/B-VII.0	2004	1200	254913	16379	150	yes	no	yes	no	yes	
74182.74c	180.39	endf70i	ENDF/B-VII.0	2004	2500	245215	15174	150	yes	no	yes	no	yes	
74182.62c	180.39	actia	ENDF/B-VI.8	2000	293.6	258342	16815	150	yes	no	yes	no	yes	
74182.61c	180.39	actib	ENDF/B-VI.8	2000	77	269718	18237	150	yes	no	yes	no	yes	
74182.63c	180.39	actib	ENDF/B-VI.8	2000	3000.1	232047	13528	150	yes	no	yes	no	yes	
74182.66c	180.39	endf66b	ENDF/B-VI.6	1996	293.6	246251	16818	150	yes	no	yes	no	yes	
74182.64c	180.39	endf66d	ENDF/B-VI.6	1996	77	257611	18238	150	yes	no	yes	no	yes	
74182.65c	180.39	endf66e	ENDF/B-VI.6	1996	3000.1	219900	13524	150	yes	no	yes	no	yes	
74182.60c	180.39	endf60	ENDF/B-VI.0	1980	293.6	113177	12283	20	yes	no	no	no	no	
74182.48c	180.39	uresa	ENDF/B-VI.0	1980	300	150072	16495	20	no	no	no	no	yes	15
74182.55c	180.39	rmccsa	ENDF/B-V.2	1980	293.6	122290	13865	20	yes	no	no	no	no	
74182.50c	180.39	endf5p	ENDF/B-V.0	1973	293.6	94367	11128	20	yes	no	no	no	no	
74182.24c	180.39	la150n	ENDF/B-VI.6	1996	293.6	246875	16896	150	yes	no	yes	no	yes	
74182.710nc	180.385	ENDF71x	ENDF/B-VII.1	2009	293.6	1340098	26342	150.0	yes	no	yes	no	no	
74182.711nc	180.385	ENDF71x	ENDF/B-VII.1	2009	600.0	1337802	26055	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
74182.712nc	180.385	ENDF71x	ENDF/B-VII.1	2009	900.0	1336506	25893	150.0	yes	no	yes	no	no	
74182.713nc	180.385	ENDF71x	ENDF/B-VII.1	2009	1200.0	1335193	25729	150.0	yes	no	yes	no	no	
74182.714nc	180.385	ENDF71x	ENDF/B-VII.1	2009	2500.0	1332674	25414	150.0	yes	no	yes	no	no	
74182.715nc	180.385	ENDF71x	ENDF/B-VII.1	2009	0.1	1351058	27712	150.0	yes	no	yes	no	no	
74182.716nc	180.385	ENDF71x	ENDF/B-VII.1	2009	250.0	1340361	26375	150.0	yes	no	yes	no	no	
W-183														
74183.80c	181.379	ENDF71x	ENDF/B-VII.1	2009	293.6	1459838	23621	150.0	yes	no	yes	no	yes	
74183.81c	181.379	ENDF71x	ENDF/B-VII.1	2009	600.0	1451102	22529	150.0	yes	no	yes	no	yes	
74183.82c	181.379	ENDF71x	ENDF/B-VII.1	2009	900.0	1446598	21966	150.0	yes	no	yes	no	yes	
74183.83c	181.379	ENDF71x	ENDF/B-VII.1	2009	1200.0	1441510	21330	150.0	yes	no	yes	no	yes	
74183.84c	181.379	ENDF71x	ENDF/B-VII.1	2009	2500.0	1433046	20272	150.0	yes	no	yes	no	yes	
74183.85c	181.379	ENDF71x	ENDF/B-VII.1	2009	0.1	1501830	28870	150.0	yes	no	yes	no	yes	
74183.86c	181.379	ENDF71x	ENDF/B-VII.1	2009	250.0	1461599	23841	150.0	yes	no	yes	no	yes	
74183.70c	181.38	endf70i	ENDF/B-VII.0	2004	293.6	227280	13389	150	yes	no	yes	no	yes	
74183.71c	181.38	endf70i	ENDF/B-VII.0	2004	600	221191	12628	150	yes	no	yes	no	yes	
74183.72c	181.38	endf70i	ENDF/B-VII.0	2004	900	216007	11980	150	yes	no	yes	no	yes	
74183.73c	181.38	endf70i	ENDF/B-VII.0	2004	1200	212559	11549	150	yes	no	yes	no	yes	
74183.74c	181.38	endf70i	ENDF/B-VII.0	2004	2500	203767	10450	150	yes	no	yes	no	yes	
74183.62c	181.38	actia	ENDF/B-VI.8	2000	293.6	224856	13086	150	yes	no	yes	no	yes	
74183.61c	181.38	actib	ENDF/B-VI.8	2000	77	235761	14449	150	yes	no	yes	no	yes	
74183.63c	181.38	actib	ENDF/B-VI.8	2000	3000.1	198226	9757	150	yes	no	yes	no	yes	
74183.66c	181.38	endf66b	ENDF/B-VI.6	1996	293.6	217447	13078	150	yes	no	yes	no	yes	
74183.64c	181.38	endf66d	ENDF/B-VI.6	1996	77	228392	14446	150	yes	no	yes	no	yes	
74183.65c	181.38	endf66e	ENDF/B-VI.6	1996	3000.1	190833	9751	150	yes	no	yes	no	yes	
74183.60c	181.38	endf60	ENDF/B-VI.0	1980	293.6	89350	9131	20	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
74183.48c	181.38	uresa	ENDF/B-VI.0	1980	300	119637	12616	20	no	no	no	no	yes	15
74183.55c	181.38	rmccsa	ENDF/B-V.2	1980	293.6	79534	8083	20	yes	no	no	no	no	
74183.50c	181.38	endf5p	ENDF/B-V.0	1973	293.6	58799	5843	20	yes	no	no	no	no	
74183.24c	181.38	la150n	ENDF/B-VI.6	1996	293.6	217095	13034	150	yes	no	yes	no	yes	
74183.710nc	181.379	ENDF71x	ENDF/B-VII.1	2009	293.6	1459838	23621	150.0	yes	no	yes	no	yes	
74183.711nc	181.379	ENDF71x	ENDF/B-VII.1	2009	600.0	1451102	22529	150.0	yes	no	yes	no	yes	
74183.712nc	181.379	ENDF71x	ENDF/B-VII.1	2009	900.0	1446598	21966	150.0	yes	no	yes	no	yes	
74183.713nc	181.379	ENDF71x	ENDF/B-VII.1	2009	1200.0	1441510	21330	150.0	yes	no	yes	no	yes	
74183.714nc	181.379	ENDF71x	ENDF/B-VII.1	2009	2500.0	1433046	20272	150.0	yes	no	yes	no	yes	
74183.715nc	181.379	ENDF71x	ENDF/B-VII.1	2009	0.1	1501830	28870	150.0	yes	no	yes	no	yes	
74183.716nc	181.379	ENDF71x	ENDF/B-VII.1	2009	250.0	1461599	23841	150.0	yes	no	yes	no	yes	
W-184														
74184.80c	182.371	ENDF71x	ENDF/B-VII.1	2009	293.6	1030373	12670	150.0	yes	no	yes	no	yes	
74184.81c	182.371	ENDF71x	ENDF/B-VII.1	2009	600.0	1025646	12079	150.0	yes	no	yes	no	yes	
74184.82c	182.371	ENDF71x	ENDF/B-VII.1	2009	900.0	1023565	11819	150.0	yes	no	yes	no	yes	
74184.83c	182.371	ENDF71x	ENDF/B-VII.1	2009	1200.0	1020861	11481	150.0	yes	no	yes	no	yes	
74184.84c	182.371	ENDF71x	ENDF/B-VII.1	2009	2500.0	1014701	10711	150.0	yes	no	yes	no	yes	
74184.85c	182.371	ENDF71x	ENDF/B-VII.1	2009	0.1	1057773	16095	150.0	yes	no	yes	no	yes	
74184.86c	182.371	ENDF71x	ENDF/B-VII.1	2009	250.0	1031470	12807	150.0	yes	no	yes	no	yes	
74184.70c	182.37	endf70i	ENDF/B-VII.0	2004	293.6	202861	11149	150	yes	no	yes	no	yes	
74184.71c	182.37	endf70i	ENDF/B-VII.0	2004	600	198349	10585	150	yes	no	yes	no	yes	
74184.72c	182.37	endf70i	ENDF/B-VII.0	2004	900	195683	10252	150	yes	no	yes	no	yes	
74184.73c	182.37	endf70i	ENDF/B-VII.0	2004	1200	193989	10040	150	yes	no	yes	no	yes	
74184.74c	182.37	endf70i	ENDF/B-VII.0	2004	2500	189011	9418	150	yes	no	yes	no	yes	
74184.62c	182.37	actia	ENDF/B-VI.8	2000	293.6	194523	10107	150	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
74184.61c	182.37	actib	ENDF/B-VI.8	2000	77	200883	10902	150	yes	no	yes	no	yes	
74184.63c	182.37	actib	ENDF/B-VI.8	2000	3000.1	181213	8443	150	yes	no	yes	no	yes	
74184.66c	182.37	endf66b	ENDF/B-VI.6	1996	293.6	192123	10109	150	yes	no	yes	no	yes	
74184.64c	182.37	endf66d	ENDF/B-VI.6	1996	77	198499	10906	150	yes	no	yes	no	yes	
74184.65c	182.37	endf66e	ENDF/B-VI.6	1996	3000.1	178773	8440	150	yes	no	yes	no	yes	
74184.60c	182.37	endf60	ENDF/B-VI.0	1980	293.6	78809	7368	20	yes	no	no	no	no	
74184.48c	182.37	uresa	ENDF/B-VI.0	1980	300	97118	9794	20	no	no	no	no	yes	15
74184.55c	182.37	rmccsa	ENDF/B-V.2	1980	293.6	80006	7835	20	yes	no	no	no	no	
74184.50c	182.37	endf5p	ENDF/B-V.0	1973	293.6	58870	6173	20	yes	no	no	no	no	
74184.24c	182.37	la150n	ENDF/B-VI.6	1996	293.6	192693	10180	150	yes	no	yes	no	yes	
74184.710nc	182.371	ENDF71x	ENDF/B-VII.1	2009	293.6	1030373	12670	150.0	yes	no	yes	no	yes	
74184.711nc	182.371	ENDF71x	ENDF/B-VII.1	2009	600.0	1025646	12079	150.0	yes	no	yes	no	yes	
74184.712nc	182.371	ENDF71x	ENDF/B-VII.1	2009	900.0	1023565	11819	150.0	yes	no	yes	no	yes	
74184.713nc	182.371	ENDF71x	ENDF/B-VII.1	2009	1200.0	1020861	11481	150.0	yes	no	yes	no	yes	
74184.714nc	182.371	ENDF71x	ENDF/B-VII.1	2009	2500.0	1014701	10711	150.0	yes	no	yes	no	yes	
74184.715nc	182.371	ENDF71x	ENDF/B-VII.1	2009	0.1	1057773	16095	150.0	yes	no	yes	no	yes	
74184.716nc	182.371	ENDF71x	ENDF/B-VII.1	2009	250.0	1031470	12807	150.0	yes	no	yes	no	yes	
W-186														
74186.80c	184.357	ENDF71x	ENDF/B-VII.1	2009	293.6	1245148	26347	150.0	yes	no	yes	no	no	
74186.81c	184.357	ENDF71x	ENDF/B-VII.1	2009	600.0	1233184	24768	150.0	yes	no	yes	no	no	
74186.82c	184.357	ENDF71x	ENDF/B-VII.1	2009	900.0	1226884	23939	150.0	yes	no	yes	no	no	
74186.83c	184.357	ENDF71x	ENDF/B-VII.1	2009	1200.0	1220681	23119	150.0	yes	no	yes	no	no	
74186.84c	184.357	ENDF71x	ENDF/B-VII.1	2009	2500.0	1207377	21368	150.0	yes	no	yes	no	no	
74186.85c	184.357	ENDF71x	ENDF/B-VII.1	2009	0.1	1322901	36554	150.0	yes	no	yes	no	no	
74186.86c	184.357	ENDF71x	ENDF/B-VII.1	2009	250.0	1248140	26738	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
74186.70c	184.36	endf70i	ENDF/B-VII.0	2004	293.6	208629	11750	150	yes	no	yes	no	yes	
74186.71c	184.36	endf70i	ENDF/B-VII.0	2004	600	205234	11265	150	yes	no	yes	no	yes	
74186.72c	184.36	endf70i	ENDF/B-VII.0	2004	900	203120	10963	150	yes	no	yes	no	yes	
74186.73c	184.36	endf70i	ENDF/B-VII.0	2004	1200	201237	10694	150	yes	no	yes	no	yes	
74186.74c	184.36	endf70i	ENDF/B-VII.0	2004	2500	197150	10110	150	yes	no	yes	no	yes	
74186.62c	184.36	actia	ENDF/B-VI.8	2000	293.6	202211	10833	150	yes	no	yes	no	yes	
74186.61c	184.36	actib	ENDF/B-VI.8	2000	77	207824	11635	150	yes	no	yes	no	yes	
74186.63c	184.36	actib	ENDF/B-VI.8	2000	3000.1	190276	9128	150	yes	no	yes	no	yes	
74186.66c	184.36	endf66c	ENDF/B-VI.6	1996	293.6	187731	10829	150	yes	no	yes	no	yes	
74186.64c	184.36	endf66d	ENDF/B-VI.6	1996	77	193372	11635	150	yes	no	yes	no	yes	
74186.65c	184.36	endf66e	ENDF/B-VI.6	1996	3000.1	175817	9127	150	yes	no	yes	no	yes	
74186.60c	184.36	endf60	ENDF/B-VI.0	1980	293.6	82010	7793	20	yes	no	no	no	no	
74186.48c	184.36	uresa	ENDF/B-VI.0	1980	300	102199	10485	20	no	no	no	no	yes	15
74186.55c	184.36	rmccsa	ENDF/B-V.2	1980	293.6	83618	8342	20	yes	no	no	no	no	
74186.50c	184.36	endf5p	ENDF/B-V.0	1973	293.6	63701	6866	20	yes	no	no	no	no	
74186.24c	184.36	la150n	ENDF/B-VI.6	1996	293.6	187863	10848	150	yes	no	yes	no	yes	
74186.710nc	184.357	ENDF71x	ENDF/B-VII.1	2009	293.6	1245148	26347	150.0	yes	no	yes	no	no	
74186.711nc	184.357	ENDF71x	ENDF/B-VII.1	2009	600.0	1233184	24768	150.0	yes	no	yes	no	no	
74186.712nc	184.357	ENDF71x	ENDF/B-VII.1	2009	900.0	1226884	23939	150.0	yes	no	yes	no	no	
74186.713nc	184.357	ENDF71x	ENDF/B-VII.1	2009	1200.0	1220681	23119	150.0	yes	no	yes	no	no	
74186.714nc	184.357	ENDF71x	ENDF/B-VII.1	2009	2500.0	1207377	21368	150.0	yes	no	yes	no	no	
74186.715nc	184.357	ENDF71x	ENDF/B-VII.1	2009	0.1	1322901	36554	150.0	yes	no	yes	no	no	
74186.716nc	184.357	ENDF71x	ENDF/B-VII.1	2009	250.0	1248140	26738	150.0	yes	no	yes	no	no	
					Z = 75, rhenium									
Re-185														

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
75185.80c	183.3641	ENDF71x	ENDF/B-VII.1	2011	293.6	1639695	49146	20.0	yes	no	yes	no	yes	
75185.81c	183.3641	ENDF71x	ENDF/B-VII.1	2011	600.0	1506380	41304	20.0	yes	no	yes	no	yes	
75185.82c	183.3641	ENDF71x	ENDF/B-VII.1	2011	900.0	1432413	36953	20.0	yes	no	yes	no	yes	
75185.83c	183.3641	ENDF71x	ENDF/B-VII.1	2011	1200.0	1379918	33865	20.0	yes	no	yes	no	yes	
75185.84c	183.3641	ENDF71x	ENDF/B-VII.1	2011	2500.0	1263009	26988	20.0	yes	no	yes	no	yes	
75185.85c	183.3641	ENDF71x	ENDF/B-VII.1	2011	0.1	2469974	97986	20.0	yes	no	yes	no	yes	
75185.86c	183.3641	ENDF71x	ENDF/B-VII.1	2011	250.0	1667507	50782	20.0	yes	no	yes	no	yes	
75185.70c	183.364	endf70i	ENDF/B-VII.0	1990	293.6	428476	60063	20	no	no	no	no	yes	
75185.71c	183.364	endf70i	ENDF/B-VII.0	1990	600	360611	50368	20	no	no	no	no	yes	
75185.72c	183.364	endf70i	ENDF/B-VII.0	1990	900	321229	44742	20	no	no	no	no	yes	
75185.73c	183.364	endf70i	ENDF/B-VII.0	1990	1200	293159	40732	20	no	no	no	no	yes	
75185.74c	183.364	endf70i	ENDF/B-VII.0	1990	2500	225721	31098	20	no	no	no	no	yes	
75185.66c	183.364	endf66c	ENDF/B-VI.0	1990	293.6	397396	55623	20	no	no	no	no	yes	
75185.65c	183.364	endf66e	ENDF/B-VI.0	1990	3000.1	179325	24470	20	no	no	no	no	yes	
75185.60c	183.364	endf60	ENDF/B-VI.0	1990	293.6	102775	16719	20	no	no	no	no	no	
75185.50c	183.364	rmccsa	ENDF/B-V.0	1968	293.6	9190	1168	20	no	no	no	no	no	
75185.32c	183.3612	misc5xs	LLNL	<1985	0	13650	1488	20	yes	no	no	no	no	7
75185.42c	183.3641	endl92	LLNL	<1992	300	23715	2214	30	yes	no	no	no	no	
75185.710nc	183.3641	ENDF71x	ENDF/B-VII.1	2011	293.6	1639695	49146	20.0	yes	no	yes	no	yes	
75185.711nc	183.3641	ENDF71x	ENDF/B-VII.1	2011	600.0	1506380	41304	20.0	yes	no	yes	no	yes	
75185.712nc	183.3641	ENDF71x	ENDF/B-VII.1	2011	900.0	1432413	36953	20.0	yes	no	yes	no	yes	
75185.713nc	183.3641	ENDF71x	ENDF/B-VII.1	2011	1200.0	1379918	33865	20.0	yes	no	yes	no	yes	
75185.714nc	183.3641	ENDF71x	ENDF/B-VII.1	2011	2500.0	1263009	26988	20.0	yes	no	yes	no	yes	
75185.715nc	183.3641	ENDF71x	ENDF/B-VII.1	2011	0.1	2469974	97986	20.0	yes	no	yes	no	yes	
75185.716nc	183.3641	ENDF71x	ENDF/B-VII.1	2011	250.0	1667507	50782	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
Re-187														
75187.80c	185.3497	ENDF71x	ENDF/B-VII.1	2011	293.6	1378884	44526	20.0	yes	no	yes	no	yes	
75187.81c	185.3497	ENDF71x	ENDF/B-VII.1	2011	600.0	1291938	37838	20.0	yes	no	yes	no	yes	
75187.82c	185.3497	ENDF71x	ENDF/B-VII.1	2011	900.0	1243812	34136	20.0	yes	no	yes	no	yes	
75187.83c	185.3497	ENDF71x	ENDF/B-VII.1	2011	1200.0	1208921	31452	20.0	yes	no	yes	no	yes	
75187.84c	185.3497	ENDF71x	ENDF/B-VII.1	2011	2500.0	1130726	25437	20.0	yes	no	yes	no	yes	
75187.85c	185.3497	ENDF71x	ENDF/B-VII.1	2011	0.1	1844815	80367	20.0	yes	no	yes	no	yes	
75187.86c	185.3497	ENDF71x	ENDF/B-VII.1	2011	250.0	1397836	45984	20.0	yes	no	yes	no	yes	
75187.70c	185.35	endf70i	ENDF/B-VII.0	1990	293.6	383887	53544	20	no	no	no	no	yes	
75187.71c	185.35	endf70i	ENDF/B-VII.0	1990	600	332017	46134	20	no	no	no	no	yes	
75187.72c	185.35	endf70i	ENDF/B-VII.0	1990	900	298130	41293	20	no	no	no	no	yes	
75187.73c	185.35	endf70i	ENDF/B-VII.0	1990	1200	275177	38014	20	no	no	no	no	yes	
75187.74c	185.35	endf70i	ENDF/B-VII.0	1990	2500	221116	30291	20	no	no	no	no	yes	
75187.66c	185.35	endf66c	ENDF/B-VI.0	1990	293.6	358295	49888	20	no	no	no	no	yes	
75187.65c	185.35	endf66e	ENDF/B-VI.0	1990	3000.1	180705	24518	20	no	no	no	no	yes	
75187.60c	185.35	endf60	ENDF/B-VI.0	1990	293.6	96989	15624	20	no	no	no	no	no	
75187.50c	185.35	rmccsa	ENDF/B-V.0	1968	293.6	8262	959	20	no	no	no	no	no	
75187.32c	185.3539	misc5xs	LLNL	<1985	0	12318	1296	20	yes	no	no	no	no	7
75187.42c	185.3497	endl92	LLNL	<1992	300	20969	1821	30	yes	no	no	no	no	
75187.710nc	185.3497	ENDF71x	ENDF/B-VII.1	2011	293.6	1378884	44526	20.0	yes	no	yes	no	yes	
75187.711nc	185.3497	ENDF71x	ENDF/B-VII.1	2011	600.0	1291938	37838	20.0	yes	no	yes	no	yes	
75187.712nc	185.3497	ENDF71x	ENDF/B-VII.1	2011	900.0	1243812	34136	20.0	yes	no	yes	no	yes	
75187.713nc	185.3497	ENDF71x	ENDF/B-VII.1	2011	1200.0	1208921	31452	20.0	yes	no	yes	no	yes	
75187.714nc	185.3497	ENDF71x	ENDF/B-VII.1	2011	2500.0	1130726	25437	20.0	yes	no	yes	no	yes	
75187.715nc	185.3497	ENDF71x	ENDF/B-VII.1	2011	0.1	1844815	80367	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
75187.716nc	185.3497	ENDF71x	ENDF/B-VII.1	2011	250.0	1397836	45984	20.0	yes	no	yes	no	yes	
				Z = 77, iridium										
Ir-0														
77000.55c	190.563	misc5xs	LANL/T	1986	300	43071	3704	20	no	no	no	no	no	7
Ir-191														
77191.80c	189.32	ENDF71x	ENDF/B-VII.1	2006	293.6	430974	9234	20.0	yes	no	yes	no	no	
77191.81c	189.32	ENDF71x	ENDF/B-VII.1	2006	600.0	423262	8270	20.0	yes	no	yes	no	no	
77191.82c	189.32	ENDF71x	ENDF/B-VII.1	2006	900.0	419223	7765	20.0	yes	no	yes	no	no	
77191.83c	189.32	ENDF71x	ENDF/B-VII.1	2006	1200.0	415478	7297	20.0	yes	no	yes	no	no	
77191.84c	189.32	ENDF71x	ENDF/B-VII.1	2006	2500.0	407742	6330	20.0	yes	no	yes	no	no	
77191.85c	189.32	ENDF71x	ENDF/B-VII.1	2006	0.1	451422	11790	20.0	yes	no	yes	no	no	
77191.86c	189.32	ENDF71x	ENDF/B-VII.1	2006	250.0	432582	9435	20.0	yes	no	yes	no	no	
77191.70c	189.32	endf70i	ENDF/B-VII.0	2006	293.6	431865	9337	20	yes	no	yes	no	no	
77191.71c	189.32	endf70i	ENDF/B-VII.0	2006	600	424153	8373	20	yes	no	yes	no	no	
77191.72c	189.32	endf70i	ENDF/B-VII.0	2006	900	420114	7868	20	yes	no	yes	no	no	
77191.73c	189.32	endf70i	ENDF/B-VII.0	2006	1200	416369	7400	20	yes	no	yes	no	no	
77191.74c	189.32	endf70i	ENDF/B-VII.0	2006	2500	408633	6433	20	yes	no	yes	no	no	
77191.66c	189.32	endf66c	ENDF/B-VI.4:X	1995	293.6	90082	9290	20	yes	no	no	no	yes	
77191.65c	189.32	endf66e	ENDF/B-VI.4:X	1995	3000.1	64690	6116	20	yes	no	no	no	yes	
77191.49c	189.32	uresa	ENDF/B-VI.4	1995	300	83955	8976	20	yes	no	no	no	yes	
77191.710nc	189.32	ENDF71x	ENDF/B-VII.1	2006	293.6	430974	9234	20.0	yes	no	yes	no	no	
77191.711nc	189.32	ENDF71x	ENDF/B-VII.1	2006	600.0	423262	8270	20.0	yes	no	yes	no	no	
77191.712nc	189.32	ENDF71x	ENDF/B-VII.1	2006	900.0	419223	7765	20.0	yes	no	yes	no	no	
77191.713nc	189.32	ENDF71x	ENDF/B-VII.1	2006	1200.0	415478	7297	20.0	yes	no	yes	no	no	
77191.714nc	189.32	ENDF71x	ENDF/B-VII.1	2006	2500.0	407742	6330	20.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
77191.715nc	189.32	ENDF71x	ENDF/B-VII.1	2006	0.1	451422	11790	20.0	yes	no	yes	no	no	
77191.716nc	189.32	ENDF71x	ENDF/B-VII.1	2006	250.0	432582	9435	20.0	yes	no	yes	no	no	
Ir-193														
77193.80c	191.305	ENDF71x	ENDF/B-VII.1	2006	293.6	384714	9623	20.0	yes	no	yes	no	yes	
77193.81c	191.305	ENDF71x	ENDF/B-VII.1	2006	600.0	379642	8989	20.0	yes	no	yes	no	yes	
77193.82c	191.305	ENDF71x	ENDF/B-VII.1	2006	900.0	375522	8474	20.0	yes	no	yes	no	yes	
77193.83c	191.305	ENDF71x	ENDF/B-VII.1	2006	1200.0	373922	8274	20.0	yes	no	yes	no	yes	
77193.84c	191.305	ENDF71x	ENDF/B-VII.1	2006	2500.0	367651	7490	20.0	yes	no	yes	no	yes	
77193.85c	191.305	ENDF71x	ENDF/B-VII.1	2006	0.1	404546	12102	20.0	yes	no	yes	no	yes	
77193.86c	191.305	ENDF71x	ENDF/B-VII.1	2006	250.0	385619	9736	20.0	yes	no	yes	no	yes	
77193.70c	191.305	endf70i	ENDF/B-VII.0	2006	293.6	385638	9733	20	yes	no	yes	no	yes	
77193.71c	191.305	endf70i	ENDF/B-VII.0	2006	600	380566	9099	20	yes	no	yes	no	yes	
77193.72c	191.305	endf70i	ENDF/B-VII.0	2006	900	376446	8584	20	yes	no	yes	no	yes	
77193.73c	191.305	endf70i	ENDF/B-VII.0	2006	1200	374846	8384	20	yes	no	yes	no	yes	
77193.74c	191.305	endf70i	ENDF/B-VII.0	2006	2500	368575	7600	20	yes	no	yes	no	yes	
77193.66c	191.305	endf66c	ENDF/B-VI.4:X	1995	293.6	88688	9205	20	yes	no	no	no	yes	
77193.65c	191.305	endf66e	ENDF/B-VI.4:X	1995	3000.1	69056	6751	20	yes	no	no	no	yes	
77193.49c	191.305	uresa	ENDF/B-VI.4	1995	300	82966	8943	20	yes	no	no	no	yes	
77193.710nc	191.305	ENDF71x	ENDF/B-VII.1	2006	293.6	384714	9623	20.0	yes	no	yes	no	yes	
77193.711nc	191.305	ENDF71x	ENDF/B-VII.1	2006	600.0	379642	8989	20.0	yes	no	yes	no	yes	
77193.712nc	191.305	ENDF71x	ENDF/B-VII.1	2006	900.0	375522	8474	20.0	yes	no	yes	no	yes	
77193.713nc	191.305	ENDF71x	ENDF/B-VII.1	2006	1200.0	373922	8274	20.0	yes	no	yes	no	yes	
77193.714nc	191.305	ENDF71x	ENDF/B-VII.1	2006	2500.0	367651	7490	20.0	yes	no	yes	no	yes	
77193.715nc	191.305	ENDF71x	ENDF/B-VII.1	2006	0.1	404546	12102	20.0	yes	no	yes	no	yes	
77193.716nc	191.305	ENDF71x	ENDF/B-VII.1	2006	250.0	385619	9736	20.0	yes	no	yes	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
				Z = 78, platinum										
Pt-0														
78000.35c	193.4141	rmccsa	LLNL	<1985	0	15371	1497	20	yes	no	no	no	no	
78000.42c	193.4141	endl92	LLNL:X	<1992	300	43559	5400	30	yes	no	no	no	no	
78000.40c	193.4141	endl92	LLNL	<1992	300	43559	5400	30	yes	no	no	no	no	
				Z = 79, gold										
Au-197														
79197.80c	195.274	ENDF71x	ENDF/B-VII.1	2006	293.6	410604	43285	30.0	yes	no	no	no	no	
79197.81c	195.274	ENDF71x	ENDF/B-VII.1	2006	600.0	380804	39560	30.0	yes	no	no	no	no	
79197.82c	195.274	ENDF71x	ENDF/B-VII.1	2006	900.0	362340	37252	30.0	yes	no	no	no	no	
79197.83c	195.274	ENDF71x	ENDF/B-VII.1	2006	1200.0	350684	35795	30.0	yes	no	no	no	no	
79197.84c	195.274	ENDF71x	ENDF/B-VII.1	2006	2500.0	315388	31383	30.0	yes	no	no	no	no	
79197.85c	195.274	ENDF71x	ENDF/B-VII.1	2006	0.1	549772	60681	30.0	yes	no	no	no	no	
79197.86c	195.274	ENDF71x	ENDF/B-VII.1	2006	250.0	417420	44137	30.0	yes	no	no	no	no	
79197.70c	195.274	endf70i	ENDF/B-VII.0	2006	293.6	410653	43287	30	yes	no	no	no	no	
79197.71c	195.274	endf70i	ENDF/B-VII.0	2006	600	380853	39562	30	yes	no	no	no	no	
79197.72c	195.274	endf70i	ENDF/B-VII.0	2006	900	362389	37254	30	yes	no	no	no	no	
79197.73c	195.274	endf70i	ENDF/B-VII.0	2006	1200	350733	35797	30	yes	no	no	no	no	
79197.74c	195.274	endf70i	ENDF/B-VII.0	2006	2500	315437	31385	30	yes	no	no	no	no	
79197.66c	195.274	endf66c	ENDF/B-VI.1	1984	293.6	377905	39417	30	yes	no	no	no	no	
79197.60c	195.274	endf60	ENDF/B-VI.1	1984	293.6	161039	17724	30	yes	no	no	no	no	
79197.56c	195.274	newxs	LANL/T	1984	293.6	122482	11823	30	yes	no	no	no	no	
79197.55c	195.274	rmccsa	LANL/T	1983	293.6	134325	17909	20	yes	no	no	no	no	4
79197.50c	195.274	endf5p	ENDF/B-V.0	1977	293.6	139425	22632	20	no	no	no	no	no	
79197.710nc	195.274	ENDF71x	ENDF/B-VII.1	2006	293.6	410604	43285	30.0	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
79197.711nc	195.274	ENDF71x	ENDF/B-VII.1	2006	600.0	380804	39560	30.0	yes	no	no	no	no	
79197.712nc	195.274	ENDF71x	ENDF/B-VII.1	2006	900.0	362340	37252	30.0	yes	no	no	no	no	
79197.713nc	195.274	ENDF71x	ENDF/B-VII.1	2006	1200.0	350684	35795	30.0	yes	no	no	no	no	
79197.714nc	195.274	ENDF71x	ENDF/B-VII.1	2006	2500.0	315388	31383	30.0	yes	no	no	no	no	
79197.715nc	195.274	ENDF71x	ENDF/B-VII.1	2006	0.1	549772	60681	30.0	yes	no	no	no	no	
79197.716nc	195.274	ENDF71x	ENDF/B-VII.1	2006	250.0	417420	44137	30.0	yes	no	no	no	no	
			Z = 80, mercury											
Hg-0														
80000.42c	198.8668	endl92	LLNL:X	<1992	300	29731	2507	30	yes	no	no	no	no	
80000.40c	198.8668	endl92	LLNL	<1992	300	29731	2507	30	yes	no	no	no	no	
Hg-196														
80196.80c	194.282	ENDF71x	ENDF/B-VII.1	2004	293.6	152809	1651	150.0	yes	no	yes	no	no	
80196.81c	194.282	ENDF71x	ENDF/B-VII.1	2004	600.0	152690	1639	150.0	yes	no	yes	no	no	
80196.82c	194.282	ENDF71x	ENDF/B-VII.1	2004	900.0	152750	1645	150.0	yes	no	yes	no	no	
80196.83c	194.282	ENDF71x	ENDF/B-VII.1	2004	1200.0	152739	1644	150.0	yes	no	yes	no	no	
80196.84c	194.282	ENDF71x	ENDF/B-VII.1	2004	2500.0	152371	1607	150.0	yes	no	yes	no	no	
80196.85c	194.282	ENDF71x	ENDF/B-VII.1	2004	0.1	152949	1665	150.0	yes	no	yes	no	no	
80196.86c	194.282	ENDF71x	ENDF/B-VII.1	2004	250.0	152779	1648	150.0	yes	no	yes	no	no	
80196.70c	194.282	endf70i	ENDF/B-VII.0	2004	293.6	153203	1690	150	yes	no	yes	no	no	
80196.71c	194.282	endf70i	ENDF/B-VII.0	2004	600	153084	1678	150	yes	no	yes	no	no	
80196.72c	194.282	endf70i	ENDF/B-VII.0	2004	900	153144	1684	150	yes	no	yes	no	no	
80196.73c	194.282	endf70i	ENDF/B-VII.0	2004	1200	153133	1683	150	yes	no	yes	no	no	
80196.74c	194.282	endf70i	ENDF/B-VII.0	2004	2500	152765	1646	150	yes	no	yes	no	no	
80196.24c	194.282	la150n	LANL	1998	293.6	153206	1690	150	yes	no	yes	no	no	
80196.710nc	194.282	ENDF71x	ENDF/B-VII.1	2004	293.6	152809	1651	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
80196.711nc	194.282	ENDF71x	ENDF/B-VII.1	2004	600.0	152690	1639	150.0	yes	no	yes	no	no	
80196.712nc	194.282	ENDF71x	ENDF/B-VII.1	2004	900.0	152750	1645	150.0	yes	no	yes	no	no	
80196.713nc	194.282	ENDF71x	ENDF/B-VII.1	2004	1200.0	152739	1644	150.0	yes	no	yes	no	no	
80196.714nc	194.282	ENDF71x	ENDF/B-VII.1	2004	2500.0	152371	1607	150.0	yes	no	yes	no	no	
80196.715nc	194.282	ENDF71x	ENDF/B-VII.1	2004	0.1	152949	1665	150.0	yes	no	yes	no	no	
80196.716nc	194.282	ENDF71x	ENDF/B-VII.1	2004	250.0	152779	1648	150.0	yes	no	yes	no	no	
Hg-198														
80198.80c	196.266	ENDF71x	ENDF/B-VII.1	2004	293.6	172118	3180	150.0	yes	no	yes	no	no	
80198.81c	196.266	ENDF71x	ENDF/B-VII.1	2004	600.0	171237	3092	150.0	yes	no	yes	no	no	
80198.82c	196.266	ENDF71x	ENDF/B-VII.1	2004	900.0	170398	3008	150.0	yes	no	yes	no	no	
80198.83c	196.266	ENDF71x	ENDF/B-VII.1	2004	1200.0	170178	2986	150.0	yes	no	yes	no	no	
80198.84c	196.266	ENDF71x	ENDF/B-VII.1	2004	2500.0	169198	2888	150.0	yes	no	yes	no	no	
80198.85c	196.266	ENDF71x	ENDF/B-VII.1	2004	0.1	174709	3439	150.0	yes	no	yes	no	no	
80198.86c	196.266	ENDF71x	ENDF/B-VII.1	2004	250.0	172158	3184	150.0	yes	no	yes	no	no	
80198.70c	196.266	endf70i	ENDF/B-VII.0	2004	293.6	172593	3227	150	yes	no	yes	no	no	
80198.71c	196.266	endf70i	ENDF/B-VII.0	2004	600	171712	3139	150	yes	no	yes	no	no	
80198.72c	196.266	endf70i	ENDF/B-VII.0	2004	900	170873	3055	150	yes	no	yes	no	no	
80198.73c	196.266	endf70i	ENDF/B-VII.0	2004	1200	170653	3033	150	yes	no	yes	no	no	
80198.74c	196.266	endf70i	ENDF/B-VII.0	2004	2500	169673	2935	150	yes	no	yes	no	no	
80198.24c	196.266	la150n	LANL	1998	293.6	172481	3205	150	yes	no	yes	no	no	
80198.710nc	196.266	ENDF71x	ENDF/B-VII.1	2004	293.6	172118	3180	150.0	yes	no	yes	no	no	
80198.711nc	196.266	ENDF71x	ENDF/B-VII.1	2004	600.0	171237	3092	150.0	yes	no	yes	no	no	
80198.712nc	196.266	ENDF71x	ENDF/B-VII.1	2004	900.0	170398	3008	150.0	yes	no	yes	no	no	
80198.713nc	196.266	ENDF71x	ENDF/B-VII.1	2004	1200.0	170178	2986	150.0	yes	no	yes	no	no	
80198.714nc	196.266	ENDF71x	ENDF/B-VII.1	2004	2500.0	169198	2888	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
80198.715nc	196.266	ENDF71x	ENDF/B-VII.1	2004	0.1	174709	3439	150.0	yes	no	yes	no	no	
80198.716nc	196.266	ENDF71x	ENDF/B-VII.1	2004	250.0	172158	3184	150.0	yes	no	yes	no	no	
Hg-199														
80199.80c	197.259	ENDF71x	ENDF/B-VII.1	2004	293.6	172994	4111	150.0	yes	no	yes	no	no	
80199.81c	197.259	ENDF71x	ENDF/B-VII.1	2004	600.0	172664	4078	150.0	yes	no	yes	no	no	
80199.82c	197.259	ENDF71x	ENDF/B-VII.1	2004	900.0	172114	4023	150.0	yes	no	yes	no	no	
80199.83c	197.259	ENDF71x	ENDF/B-VII.1	2004	1200.0	171743	3986	150.0	yes	no	yes	no	no	
80199.84c	197.259	ENDF71x	ENDF/B-VII.1	2004	2500.0	170805	3892	150.0	yes	no	yes	no	no	
80199.85c	197.259	ENDF71x	ENDF/B-VII.1	2004	0.1	174384	4250	150.0	yes	no	yes	no	no	
80199.86c	197.259	ENDF71x	ENDF/B-VII.1	2004	250.0	173045	4116	150.0	yes	no	yes	no	no	
80199.70c	197.259	endf70i	ENDF/B-VII.0	2004	293.6	173234	4135	150	yes	no	yes	no	no	
80199.71c	197.259	endf70i	ENDF/B-VII.0	2004	600	172904	4102	150	yes	no	yes	no	no	
80199.72c	197.259	endf70i	ENDF/B-VII.0	2004	900	172354	4047	150	yes	no	yes	no	no	
80199.73c	197.259	endf70i	ENDF/B-VII.0	2004	1200	171983	4010	150	yes	no	yes	no	no	
80199.74c	197.259	endf70i	ENDF/B-VII.0	2004	2500	171045	3916	150	yes	no	yes	no	no	
80199.24c	197.259	la150n	LANL	1998	293.6	173336	4126	150	yes	no	yes	no	no	
80199.710nc	197.259	ENDF71x	ENDF/B-VII.1	2004	293.6	172994	4111	150.0	yes	no	yes	no	no	
80199.711nc	197.259	ENDF71x	ENDF/B-VII.1	2004	600.0	172664	4078	150.0	yes	no	yes	no	no	
80199.712nc	197.259	ENDF71x	ENDF/B-VII.1	2004	900.0	172114	4023	150.0	yes	no	yes	no	no	
80199.713nc	197.259	ENDF71x	ENDF/B-VII.1	2004	1200.0	171743	3986	150.0	yes	no	yes	no	no	
80199.714nc	197.259	ENDF71x	ENDF/B-VII.1	2004	2500.0	170805	3892	150.0	yes	no	yes	no	no	
80199.715nc	197.259	ENDF71x	ENDF/B-VII.1	2004	0.1	174384	4250	150.0	yes	no	yes	no	no	
80199.716nc	197.259	ENDF71x	ENDF/B-VII.1	2004	250.0	173045	4116	150.0	yes	no	yes	no	no	
Hg-200														
80200.80c	198.25	ENDF71x	ENDF/B-VII.1	2004	293.6	193179	2686	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
80200.81c	198.25	ENDF71x	ENDF/B-VII.1	2004	600.0	193018	2666	150.0	yes	no	yes	no	no	
80200.82c	198.25	ENDF71x	ENDF/B-VII.1	2004	900.0	192954	2658	150.0	yes	no	yes	no	no	
80200.83c	198.25	ENDF71x	ENDF/B-VII.1	2004	1200.0	192907	2652	150.0	yes	no	yes	no	no	
80200.84c	198.25	ENDF71x	ENDF/B-VII.1	2004	2500.0	192652	2620	150.0	yes	no	yes	no	no	
80200.85c	198.25	ENDF71x	ENDF/B-VII.1	2004	0.1	193754	2758	150.0	yes	no	yes	no	no	
80200.86c	198.25	ENDF71x	ENDF/B-VII.1	2004	250.0	193202	2689	150.0	yes	no	yes	no	no	
80200.70c	198.25	endf70i	ENDF/B-VII.0	2004	293.6	193447	2718	150	yes	no	yes	no	no	
80200.71c	198.25	endf70i	ENDF/B-VII.0	2004	600	193286	2698	150	yes	no	yes	no	no	
80200.72c	198.25	endf70i	ENDF/B-VII.0	2004	900	193222	2690	150	yes	no	yes	no	no	
80200.73c	198.25	endf70i	ENDF/B-VII.0	2004	1200	193175	2684	150	yes	no	yes	no	no	
80200.74c	198.25	endf70i	ENDF/B-VII.0	2004	2500	192920	2652	150	yes	no	yes	no	no	
80200.24c	198.25	la150n	LANL	1998	293.6	192339	2560	150	yes	no	yes	no	no	
80200.710nc	198.25	ENDF71x	ENDF/B-VII.1	2004	293.6	193179	2686	150.0	yes	no	yes	no	no	
80200.711nc	198.25	ENDF71x	ENDF/B-VII.1	2004	600.0	193018	2666	150.0	yes	no	yes	no	no	
80200.712nc	198.25	ENDF71x	ENDF/B-VII.1	2004	900.0	192954	2658	150.0	yes	no	yes	no	no	
80200.713nc	198.25	ENDF71x	ENDF/B-VII.1	2004	1200.0	192907	2652	150.0	yes	no	yes	no	no	
80200.714nc	198.25	ENDF71x	ENDF/B-VII.1	2004	2500.0	192652	2620	150.0	yes	no	yes	no	no	
80200.715nc	198.25	ENDF71x	ENDF/B-VII.1	2004	0.1	193754	2758	150.0	yes	no	yes	no	no	
80200.716nc	198.25	ENDF71x	ENDF/B-VII.1	2004	250.0	193202	2689	150.0	yes	no	yes	no	no	
Hg-201														
80201.80c	199.244	ENDF71x	ENDF/B-VII.1	2004	293.6	166046	3498	150.0	yes	no	yes	no	no	
80201.81c	199.244	ENDF71x	ENDF/B-VII.1	2004	600.0	165675	3461	150.0	yes	no	yes	no	no	
80201.82c	199.244	ENDF71x	ENDF/B-VII.1	2004	900.0	165266	3420	150.0	yes	no	yes	no	no	
80201.83c	199.244	ENDF71x	ENDF/B-VII.1	2004	1200.0	165085	3402	150.0	yes	no	yes	no	no	
80201.84c	199.244	ENDF71x	ENDF/B-VII.1	2004	2500.0	164877	3381	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
80201.85c	199.244	ENDF71x	ENDF/B-VII.1	2004	0.1	166757	3569	150.0	yes	no	yes	no	no	
80201.86c	199.244	ENDF71x	ENDF/B-VII.1	2004	250.0	166086	3502	150.0	yes	no	yes	no	no	
80201.70c	199.244	endf70i	ENDF/B-VII.0	2004	293.6	166136	3506	150	yes	no	yes	no	no	
80201.71c	199.244	endf70i	ENDF/B-VII.0	2004	600	165765	3469	150	yes	no	yes	no	no	
80201.72c	199.244	endf70i	ENDF/B-VII.0	2004	900	165356	3428	150	yes	no	yes	no	no	
80201.73c	199.244	endf70i	ENDF/B-VII.0	2004	1200	165175	3410	150	yes	no	yes	no	no	
80201.74c	199.244	endf70i	ENDF/B-VII.0	2004	2500	164967	3389	150	yes	no	yes	no	no	
80201.24c	199.244	la150n	LANL	1998	293.6	166179	3492	150	yes	no	yes	no	no	
80201.710nc	199.244	ENDF71x	ENDF/B-VII.1	2004	293.6	166046	3498	150.0	yes	no	yes	no	no	
80201.711nc	199.244	ENDF71x	ENDF/B-VII.1	2004	600.0	165675	3461	150.0	yes	no	yes	no	no	
80201.712nc	199.244	ENDF71x	ENDF/B-VII.1	2004	900.0	165266	3420	150.0	yes	no	yes	no	no	
80201.713nc	199.244	ENDF71x	ENDF/B-VII.1	2004	1200.0	165085	3402	150.0	yes	no	yes	no	no	
80201.714nc	199.244	ENDF71x	ENDF/B-VII.1	2004	2500.0	164877	3381	150.0	yes	no	yes	no	no	
80201.715nc	199.244	ENDF71x	ENDF/B-VII.1	2004	0.1	166757	3569	150.0	yes	no	yes	no	no	
80201.716nc	199.244	ENDF71x	ENDF/B-VII.1	2004	250.0	166086	3502	150.0	yes	no	yes	no	no	
Hg-202														
80202.80c	200.236	ENDF71x	ENDF/B-VII.1	2004	293.6	155009	1940	150.0	yes	no	yes	no	no	
80202.81c	200.236	ENDF71x	ENDF/B-VII.1	2004	600.0	154953	1933	150.0	yes	no	yes	no	no	
80202.82c	200.236	ENDF71x	ENDF/B-VII.1	2004	900.0	154875	1923	150.0	yes	no	yes	no	no	
80202.83c	200.236	ENDF71x	ENDF/B-VII.1	2004	1200.0	154833	1918	150.0	yes	no	yes	no	no	
80202.84c	200.236	ENDF71x	ENDF/B-VII.1	2004	2500.0	154698	1901	150.0	yes	no	yes	no	no	
80202.85c	200.236	ENDF71x	ENDF/B-VII.1	2004	0.1	155225	1967	150.0	yes	no	yes	no	no	
80202.86c	200.236	ENDF71x	ENDF/B-VII.1	2004	250.0	155025	1942	150.0	yes	no	yes	no	no	
80202.70c	200.236	endf70i	ENDF/B-VII.0	2004	293.6	155333	1980	150	yes	no	yes	no	no	
80202.71c	200.236	endf70i	ENDF/B-VII.0	2004	600	155277	1973	150	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
80202.72c	200.236	endf70i	ENDF/B-VII.0	2004	900	155199	1963	150	yes	no	yes	no	no	
80202.73c	200.236	endf70i	ENDF/B-VII.0	2004	1200	155157	1958	150	yes	no	yes	no	no	
80202.74c	200.236	endf70i	ENDF/B-VII.0	2004	2500	155022	1941	150	yes	no	yes	no	no	
80202.24c	200.236	la150n	LANL	1998	293.6	154736	1887	150	yes	no	yes	no	no	
80202.710nc	200.236	ENDF71x	ENDF/B-VII.1	2004	293.6	155009	1940	150.0	yes	no	yes	no	no	
80202.711nc	200.236	ENDF71x	ENDF/B-VII.1	2004	600.0	154953	1933	150.0	yes	no	yes	no	no	
80202.712nc	200.236	ENDF71x	ENDF/B-VII.1	2004	900.0	154875	1923	150.0	yes	no	yes	no	no	
80202.713nc	200.236	ENDF71x	ENDF/B-VII.1	2004	1200.0	154833	1918	150.0	yes	no	yes	no	no	
80202.714nc	200.236	ENDF71x	ENDF/B-VII.1	2004	2500.0	154698	1901	150.0	yes	no	yes	no	no	
80202.715nc	200.236	ENDF71x	ENDF/B-VII.1	2004	0.1	155225	1967	150.0	yes	no	yes	no	no	
80202.716nc	200.236	ENDF71x	ENDF/B-VII.1	2004	250.0	155025	1942	150.0	yes	no	yes	no	no	
Hg-204														
80204.80c	202.221	ENDF71x	ENDF/B-VII.1	2004	293.6	140620	834	150.0	yes	no	yes	no	no	
80204.81c	202.221	ENDF71x	ENDF/B-VII.1	2004	600.0	140739	849	150.0	yes	no	yes	no	no	
80204.82c	202.221	ENDF71x	ENDF/B-VII.1	2004	900.0	140810	858	150.0	yes	no	yes	no	no	
80204.83c	202.221	ENDF71x	ENDF/B-VII.1	2004	1200.0	140851	863	150.0	yes	no	yes	no	no	
80204.84c	202.221	ENDF71x	ENDF/B-VII.1	2004	2500.0	140994	881	150.0	yes	no	yes	no	no	
80204.85c	202.221	ENDF71x	ENDF/B-VII.1	2004	0.1	140058	764	150.0	yes	no	yes	no	no	
80204.86c	202.221	ENDF71x	ENDF/B-VII.1	2004	250.0	140594	831	150.0	yes	no	yes	no	no	
80204.70c	202.221	endf70i	ENDF/B-VII.0	2004	293.6	140620	834	150	yes	no	yes	no	no	
80204.71c	202.221	endf70i	ENDF/B-VII.0	2004	600	140739	849	150	yes	no	yes	no	no	
80204.72c	202.221	endf70i	ENDF/B-VII.0	2004	900	140810	858	150	yes	no	yes	no	no	
80204.73c	202.221	endf70i	ENDF/B-VII.0	2004	1200	140851	863	150	yes	no	yes	no	no	
80204.74c	202.221	endf70i	ENDF/B-VII.0	2004	2500	140994	881	150	yes	no	yes	no	no	
80204.24c	202.221	la150n	LANL	1998	293.6	140754	832	150	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
80204.710nc	202.221	ENDF71x	ENDF/B-VII.1	2004	293.6	140620	834	150.0	yes	no	yes	no	no	
80204.711nc	202.221	ENDF71x	ENDF/B-VII.1	2004	600.0	140739	849	150.0	yes	no	yes	no	no	
80204.712nc	202.221	ENDF71x	ENDF/B-VII.1	2004	900.0	140810	858	150.0	yes	no	yes	no	no	
80204.713nc	202.221	ENDF71x	ENDF/B-VII.1	2004	1200.0	140851	863	150.0	yes	no	yes	no	no	
80204.714nc	202.221	ENDF71x	ENDF/B-VII.1	2004	2500.0	140994	881	150.0	yes	no	yes	no	no	
80204.715nc	202.221	ENDF71x	ENDF/B-VII.1	2004	0.1	140058	764	150.0	yes	no	yes	no	no	
80204.716nc	202.221	ENDF71x	ENDF/B-VII.1	2004	250.0	140594	831	150.0	yes	no	yes	no	no	
				Z = 81, thallium										
Tl-203														
81203.80c	201.229	ENDF71x	ENDF/B-VII.1	2011	293.6	353164	13125	30.0	yes	no	no	no	no	
81203.81c	201.229	ENDF71x	ENDF/B-VII.1	2011	600.0	350012	12731	30.0	yes	no	no	no	no	
81203.82c	201.229	ENDF71x	ENDF/B-VII.1	2011	900.0	347132	12371	30.0	yes	no	no	no	no	
81203.83c	201.229	ENDF71x	ENDF/B-VII.1	2011	1200.0	345980	12227	30.0	yes	no	no	no	no	
81203.84c	201.229	ENDF71x	ENDF/B-VII.1	2011	2500.0	341652	11686	30.0	yes	no	no	no	no	
81203.85c	201.229	ENDF71x	ENDF/B-VII.1	2011	0.1	371692	15441	30.0	yes	no	no	no	no	
81203.86c	201.229	ENDF71x	ENDF/B-VII.1	2011	250.0	353972	13226	30.0	yes	no	no	no	no	
81203.710nc	201.229	ENDF71x	ENDF/B-VII.1	2011	293.6	353164	13125	30.0	yes	no	no	no	no	
81203.711nc	201.229	ENDF71x	ENDF/B-VII.1	2011	600.0	350012	12731	30.0	yes	no	no	no	no	
81203.712nc	201.229	ENDF71x	ENDF/B-VII.1	2011	900.0	347132	12371	30.0	yes	no	no	no	no	
81203.713nc	201.229	ENDF71x	ENDF/B-VII.1	2011	1200.0	345980	12227	30.0	yes	no	no	no	no	
81203.714nc	201.229	ENDF71x	ENDF/B-VII.1	2011	2500.0	341652	11686	30.0	yes	no	no	no	no	
81203.715nc	201.229	ENDF71x	ENDF/B-VII.1	2011	0.1	371692	15441	30.0	yes	no	no	no	no	
81203.716nc	201.229	ENDF71x	ENDF/B-VII.1	2011	250.0	353972	13226	30.0	yes	no	no	no	no	
Tl-205														
81205.80c	203.214	ENDF71x	ENDF/B-VII.1	2011	293.6	236466	12808	30.0	yes	no	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
81205.81c	203.214	ENDF71x	ENDF/B-VII.1	2011	600.0	232610	12326	30.0	yes	no	no	no	yes	
81205.82c	203.214	ENDF71x	ENDF/B-VII.1	2011	900.0	230522	12065	30.0	yes	no	no	no	yes	
81205.83c	203.214	ENDF71x	ENDF/B-VII.1	2011	1200.0	228898	11862	30.0	yes	no	no	no	yes	
81205.84c	203.214	ENDF71x	ENDF/B-VII.1	2011	2500.0	224898	11362	30.0	yes	no	no	no	yes	
81205.85c	203.214	ENDF71x	ENDF/B-VII.1	2011	0.1	254946	15118	30.0	yes	no	no	no	yes	
81205.86c	203.214	ENDF71x	ENDF/B-VII.1	2011	250.0	237010	12876	30.0	yes	no	no	no	yes	
81205.710nc	203.214	ENDF71x	ENDF/B-VII.1	2011	293.6	236466	12808	30.0	yes	no	no	no	yes	
81205.711nc	203.214	ENDF71x	ENDF/B-VII.1	2011	600.0	232610	12326	30.0	yes	no	no	no	yes	
81205.712nc	203.214	ENDF71x	ENDF/B-VII.1	2011	900.0	230522	12065	30.0	yes	no	no	no	yes	
81205.713nc	203.214	ENDF71x	ENDF/B-VII.1	2011	1200.0	228898	11862	30.0	yes	no	no	no	yes	
81205.714nc	203.214	ENDF71x	ENDF/B-VII.1	2011	2500.0	224898	11362	30.0	yes	no	no	no	yes	
81205.715nc	203.214	ENDF71x	ENDF/B-VII.1	2011	0.1	254946	15118	30.0	yes	no	no	no	yes	
81205.716nc	203.214	ENDF71x	ENDF/B-VII.1	2011	250.0	237010	12876	30.0	yes	no	no	no	yes	
				Z = 82, lead										
Pb-0														
82000.50c	205.43	rmccs	ENDF/B-V.0	1976	293.6	37633	1346	20	yes	no	no	no	no	
82000.42c	205.42	endl92	LLNL	<1992	300	270244	18969	30	yes	no	no	no	no	
Pb-204														
82204.80c	202.2208	ENDF71x	ENDF/B-VII.1	2004	293.6	613556	12387	200.0	yes	no	yes	no	no	
82204.81c	202.2208	ENDF71x	ENDF/B-VII.1	2004	600.0	603763	11979	200.0	yes	no	yes	no	no	
82204.82c	202.2208	ENDF71x	ENDF/B-VII.1	2004	900.0	598220	11748	200.0	yes	no	yes	no	no	
82204.83c	202.2208	ENDF71x	ENDF/B-VII.1	2004	1200.0	594093	11576	200.0	yes	no	yes	no	no	
82204.84c	202.2208	ENDF71x	ENDF/B-VII.1	2004	2500.0	584467	11175	200.0	yes	no	yes	no	no	
82204.85c	202.2208	ENDF71x	ENDF/B-VII.1	2004	0.1	660548	14345	200.0	yes	no	yes	no	no	
82204.86c	202.2208	ENDF71x	ENDF/B-VII.1	2004	250.0	616028	12490	200.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
82204.70c	202.2208	endf70i	ENDF/B-VII.0	2004	293.6	613990	12401	200	yes	no	yes	no	no	
82204.71c	202.2208	endf70i	ENDF/B-VII.0	2004	600	604197	11993	200	yes	no	yes	no	no	
82204.72c	202.2208	endf70i	ENDF/B-VII.0	2004	900	598654	11762	200	yes	no	yes	no	no	
82204.73c	202.2208	endf70i	ENDF/B-VII.0	2004	1200	594527	11590	200	yes	no	yes	no	no	
82204.74c	202.2208	endf70i	ENDF/B-VII.0	2004	2500	584901	11189	200	yes	no	yes	no	no	
82204.710nc	202.2208	ENDF71x	ENDF/B-VII.1	2004	293.6	613556	12387	200.0	yes	no	yes	no	no	
82204.711nc	202.2208	ENDF71x	ENDF/B-VII.1	2004	600.0	603763	11979	200.0	yes	no	yes	no	no	
82204.712nc	202.2208	ENDF71x	ENDF/B-VII.1	2004	900.0	598220	11748	200.0	yes	no	yes	no	no	
82204.713nc	202.2208	ENDF71x	ENDF/B-VII.1	2004	1200.0	594093	11576	200.0	yes	no	yes	no	no	
82204.714nc	202.2208	ENDF71x	ENDF/B-VII.1	2004	2500.0	584467	11175	200.0	yes	no	yes	no	no	
82204.715nc	202.2208	ENDF71x	ENDF/B-VII.1	2004	0.1	660548	14345	200.0	yes	no	yes	no	no	
82204.716nc	202.2208	ENDF71x	ENDF/B-VII.1	2004	250.0	616028	12490	200.0	yes	no	yes	no	no	
Pb-206														
82206.80c	204.205	ENDF71x	ENDF/B-VII.1	2004	293.6	1205627	36457	200.0	yes	no	yes	no	no	
82206.81c	204.205	ENDF71x	ENDF/B-VII.1	2004	600.0	1188299	35735	200.0	yes	no	yes	no	no	
82206.82c	204.205	ENDF71x	ENDF/B-VII.1	2004	900.0	1177836	35299	200.0	yes	no	yes	no	no	
82206.83c	204.205	ENDF71x	ENDF/B-VII.1	2004	1200.0	1171666	35042	200.0	yes	no	yes	no	no	
82206.84c	204.205	ENDF71x	ENDF/B-VII.1	2004	2500.0	1143826	33882	200.0	yes	no	yes	no	no	
82206.85c	204.205	ENDF71x	ENDF/B-VII.1	2004	0.1	1260516	38744	200.0	yes	no	yes	no	no	
82206.86c	204.205	ENDF71x	ENDF/B-VII.1	2004	250.0	1207978	36555	200.0	yes	no	yes	no	no	
82206.70c	204.205	endf70i	ENDF/B-VII.0	2004	293.6	1205531	36453	200	yes	no	yes	no	no	
82206.71c	204.205	endf70i	ENDF/B-VII.0	2004	600	1188179	35730	200	yes	no	yes	no	no	
82206.72c	204.205	endf70i	ENDF/B-VII.0	2004	900	1177716	35294	200	yes	no	yes	no	no	
82206.73c	204.205	endf70i	ENDF/B-VII.0	2004	1200	1171498	35035	200	yes	no	yes	no	no	
82206.74c	204.205	endf70i	ENDF/B-VII.0	2004	2500	1143682	33876	200	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
82206.66c	204.2	endf66c	ENDF/B-VI.6	1997	293.6	420901	30414	150	yes	no	yes	no	no	
82206.60c	204.2	endf60	ENDF/B-VI.0	1989	293.6	148815	12872	20	yes	no	no	no	no	
82206.24c	204.2	la150n	ENDF/B-VI.6	1996	293.6	424548	30415	150	yes	no	yes	no	no	
82206.710nc	204.205	ENDF71x	ENDF/B-VII.1	2004	293.6	1205627	36457	200.0	yes	no	yes	no	no	
82206.711nc	204.205	ENDF71x	ENDF/B-VII.1	2004	600.0	1188299	35735	200.0	yes	no	yes	no	no	
82206.712nc	204.205	ENDF71x	ENDF/B-VII.1	2004	900.0	1177836	35299	200.0	yes	no	yes	no	no	
82206.713nc	204.205	ENDF71x	ENDF/B-VII.1	2004	1200.0	1171666	35042	200.0	yes	no	yes	no	no	
82206.714nc	204.205	ENDF71x	ENDF/B-VII.1	2004	2500.0	1143826	33882	200.0	yes	no	yes	no	no	
82206.715nc	204.205	ENDF71x	ENDF/B-VII.1	2004	0.1	1260516	38744	200.0	yes	no	yes	no	no	
82206.716nc	204.205	ENDF71x	ENDF/B-VII.1	2004	250.0	1207978	36555	200.0	yes	no	yes	no	no	
Pb-207														
82207.80c	205.1979	ENDF71x	ENDF/B-VII.1	2004	293.6	551210	12098	200.0	yes	no	yes	no	no	
82207.81c	205.1979	ENDF71x	ENDF/B-VII.1	2004	600.0	546459	11900	200.0	yes	no	yes	no	no	
82207.82c	205.1979	ENDF71x	ENDF/B-VII.1	2004	900.0	543531	11778	200.0	yes	no	yes	no	no	
82207.83c	205.1979	ENDF71x	ENDF/B-VII.1	2004	1200.0	541322	11686	200.0	yes	no	yes	no	no	
82207.84c	205.1979	ENDF71x	ENDF/B-VII.1	2004	2500.0	532876	11334	200.0	yes	no	yes	no	no	
82207.85c	205.1979	ENDF71x	ENDF/B-VII.1	2004	0.1	562035	12549	200.0	yes	no	yes	no	no	
82207.86c	205.1979	ENDF71x	ENDF/B-VII.1	2004	250.0	552100	12135	200.0	yes	no	yes	no	no	
82207.70c	205.1979	endf70i	ENDF/B-VII.0	2004	293.6	551210	12098	200	yes	no	yes	no	no	
82207.71c	205.1979	endf70i	ENDF/B-VII.0	2004	600	546459	11900	200	yes	no	yes	no	no	
82207.72c	205.1979	endf70i	ENDF/B-VII.0	2004	900	543531	11778	200	yes	no	yes	no	no	
82207.73c	205.1979	endf70i	ENDF/B-VII.0	2004	1200	541322	11686	200	yes	no	yes	no	no	
82207.74c	205.1979	endf70i	ENDF/B-VII.0	2004	2500	532876	11334	200	yes	no	yes	no	no	
82207.66c	205.2	endf66c	ENDF/B-VI.6	1997	293.6	276136	10689	150	yes	no	yes	no	no	
82207.60c	205.2	endf60	ENDF/B-VI.1	1991	293.6	111750	7524	20	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
82207.24c	205.2	la150n	ENDF/B-VI.6	1996	293.6	280309	10689	150	yes	no	yes	no	no	
82207.710nc	205.1979	ENDF71x	ENDF/B-VII.1	2004	293.6	551210	12098	200.0	yes	no	yes	no	no	
82207.711nc	205.1979	ENDF71x	ENDF/B-VII.1	2004	600.0	546459	11900	200.0	yes	no	yes	no	no	
82207.712nc	205.1979	ENDF71x	ENDF/B-VII.1	2004	900.0	543531	11778	200.0	yes	no	yes	no	no	
82207.713nc	205.1979	ENDF71x	ENDF/B-VII.1	2004	1200.0	541322	11686	200.0	yes	no	yes	no	no	
82207.714nc	205.1979	ENDF71x	ENDF/B-VII.1	2004	2500.0	532876	11334	200.0	yes	no	yes	no	no	
82207.715nc	205.1979	ENDF71x	ENDF/B-VII.1	2004	0.1	562035	12549	200.0	yes	no	yes	no	no	
82207.716nc	205.1979	ENDF71x	ENDF/B-VII.1	2004	250.0	552100	12135	200.0	yes	no	yes	no	no	
Pb-208														
82208.80c	206.19	ENDF71x	ENDF/B-VII.1	2006	293.6	484977	7459	150.0	yes	no	yes	no	no	
82208.81c	206.19	ENDF71x	ENDF/B-VII.1	2006	600.0	483599	7397	150.0	yes	no	yes	no	no	
82208.82c	206.19	ENDF71x	ENDF/B-VII.1	2006	900.0	482905	7366	150.0	yes	no	yes	no	no	
82208.83c	206.19	ENDF71x	ENDF/B-VII.1	2006	1200.0	482253	7337	150.0	yes	no	yes	no	no	
82208.84c	206.19	ENDF71x	ENDF/B-VII.1	2006	2500.0	479647	7220	150.0	yes	no	yes	no	no	
82208.85c	206.19	ENDF71x	ENDF/B-VII.1	2006	0.1	490256	7698	150.0	yes	no	yes	no	no	
82208.86c	206.19	ENDF71x	ENDF/B-VII.1	2006	250.0	485318	7474	150.0	yes	no	yes	no	no	
82208.70c	206.19	endf70i	ENDF/B-VII.0	2006	293.6	483193	7444	150	yes	no	yes	no	no	
82208.71c	206.19	endf70i	ENDF/B-VII.0	2006	600	481815	7382	150	yes	no	yes	no	no	
82208.72c	206.19	endf70i	ENDF/B-VII.0	2006	900	481121	7351	150	yes	no	yes	no	no	
82208.73c	206.19	endf70i	ENDF/B-VII.0	2006	1200	480469	7322	150	yes	no	yes	no	no	
82208.74c	206.19	endf70i	ENDF/B-VII.0	2006	2500	477863	7205	150	yes	no	yes	no	no	
82208.66c	206.19	endf66c	ENDF/B-VI.6:X	1996	293.6	344865	6634	150	yes	no	yes	no	no	
82208.60c	206.19	endf60	ENDF/B-VI.0	1989	293.6	70740	5105	20	yes	no	no	no	no	
82208.25c	206.19	la150n	LANL	1996	293.6	344772	6633	150	yes	no	yes	no	no	
82208.710nc	206.19	ENDF71x	ENDF/B-VII.1	2006	293.6	484977	7459	150.0	yes	no	yes	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
82208.711nc	206.19	ENDF71x	ENDF/B-VII.1	2006	600.0	483599	7397	150.0	yes	no	yes	no	no	
82208.712nc	206.19	ENDF71x	ENDF/B-VII.1	2006	900.0	482905	7366	150.0	yes	no	yes	no	no	
82208.713nc	206.19	ENDF71x	ENDF/B-VII.1	2006	1200.0	482253	7337	150.0	yes	no	yes	no	no	
82208.714nc	206.19	ENDF71x	ENDF/B-VII.1	2006	2500.0	479647	7220	150.0	yes	no	yes	no	no	
82208.715nc	206.19	ENDF71x	ENDF/B-VII.1	2006	0.1	490256	7698	150.0	yes	no	yes	no	no	
82208.716nc	206.19	ENDF71x	ENDF/B-VII.1	2006	250.0	485318	7474	150.0	yes	no	yes	no	no	
			Z = 83, bismuth											
Bi-209														
83209.80c	207.185	ENDF71x	ENDF/B-VII.1	1999	293.6	267085	12408	150.0	yes	no	yes	no	no	
83209.81c	207.185	ENDF71x	ENDF/B-VII.1	1999	600.0	263542	12114	150.0	yes	no	yes	no	no	
83209.82c	207.185	ENDF71x	ENDF/B-VII.1	1999	900.0	260850	11907	150.0	yes	no	yes	no	no	
83209.83c	207.185	ENDF71x	ENDF/B-VII.1	1999	1200.0	258003	11688	150.0	yes	no	yes	no	no	
83209.84c	207.185	ENDF71x	ENDF/B-VII.1	1999	2500.0	253078	11309	150.0	yes	no	yes	no	no	
83209.85c	207.185	ENDF71x	ENDF/B-VII.1	1999	0.1	286360	13911	150.0	yes	no	yes	no	no	
83209.86c	207.185	ENDF71x	ENDF/B-VII.1	1999	250.0	267850	12467	150.0	yes	no	yes	no	no	
83209.70c	207.185	endf70i	ENDF/B-VII.0	1999	293.6	267132	12408	150	yes	no	yes	no	no	
83209.71c	207.185	endf70i	ENDF/B-VII.0	1999	600	263542	12114	150	yes	no	yes	no	no	
83209.72c	207.185	endf70i	ENDF/B-VII.0	1999	900	260897	11907	150	yes	no	yes	no	no	
83209.73c	207.185	endf70i	ENDF/B-VII.0	1999	1200	258003	11688	150	yes	no	yes	no	no	
83209.74c	207.185	endf70i	ENDF/B-VII.0	1999	2500	253125	11309	150	yes	no	yes	no	no	
83209.66c	207.185	endf66c	ENDF/B-VI.3	1989	293.6	161302	10906	20	yes	no	no	no	no	
83209.60c	207.185	endf60	ENDF/B-VI.0	1989	293.6	100138	8427	20	yes	no	no	no	no	
83209.51c	207.185	rmccs	ENDF/B-V.0	1980	293.6	13721	1186	20	yes	no	no	no	no	
83209.50c	207.185	endf5u	ENDF/B-V.0	1980	293.6	14939	1300	20	yes	no	no	no	no	
83209.42c	207.1851	endl92	LLNL	<1992	300	20921	1200	30	yes	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
83209.24c	207.185	la150n	LANL	1999	293.6	249386	11047	150	yes	no	yes	no	no	
83209.710nc	207.185	ENDF71x	ENDF/B-VII.1	1999	293.6	267085	12408	150.0	yes	no	yes	no	no	
83209.711nc	207.185	ENDF71x	ENDF/B-VII.1	1999	600.0	263542	12114	150.0	yes	no	yes	no	no	
83209.712nc	207.185	ENDF71x	ENDF/B-VII.1	1999	900.0	260850	11907	150.0	yes	no	yes	no	no	
83209.713nc	207.185	ENDF71x	ENDF/B-VII.1	1999	1200.0	258003	11688	150.0	yes	no	yes	no	no	
83209.714nc	207.185	ENDF71x	ENDF/B-VII.1	1999	2500.0	253078	11309	150.0	yes	no	yes	no	no	
83209.715nc	207.185	ENDF71x	ENDF/B-VII.1	1999	0.1	286360	13911	150.0	yes	no	yes	no	no	
83209.716nc	207.185	ENDF71x	ENDF/B-VII.1	1999	250.0	267850	12467	150.0	yes	no	yes	no	no	
						Z = 88, radium								
Ra-223														
88223.80c	221.103	ENDF71x	ENDF/B-VII.1	1988	293.6	22870	1010	20.0	no	nubar	no	no	no	
88223.81c	221.103	ENDF71x	ENDF/B-VII.1	1988	600.0	22950	1020	20.0	no	nubar	no	no	no	
88223.82c	221.103	ENDF71x	ENDF/B-VII.1	1988	900.0	22966	1022	20.0	no	nubar	no	no	no	
88223.83c	221.103	ENDF71x	ENDF/B-VII.1	1988	1200.0	22862	1009	20.0	no	nubar	no	no	no	
88223.84c	221.103	ENDF71x	ENDF/B-VII.1	1988	2500.0	22950	1020	20.0	no	nubar	no	no	no	
88223.85c	221.103	ENDF71x	ENDF/B-VII.1	1988	0.1	22910	1015	20.0	no	nubar	no	no	no	
88223.86c	221.103	ENDF71x	ENDF/B-VII.1	1988	250.0	22950	1020	20.0	no	nubar	no	no	no	
88223.70c	221.103	endf70k	ENDF/B-VII.0	1988	293.6	22870	1010	20	no	tot	no	no	no	
88223.71c	221.103	endf70k	ENDF/B-VII.0	1988	600	22950	1020	20	no	tot	no	no	no	
88223.72c	221.103	endf70k	ENDF/B-VII.0	1988	900	22966	1022	20	no	tot	no	no	no	
88223.73c	221.103	endf70k	ENDF/B-VII.0	1988	1200	22862	1009	20	no	tot	no	no	no	
88223.74c	221.103	endf70k	ENDF/B-VII.0	1988	2500	22950	1020	20	no	tot	no	no	no	
88223.710nc	221.103	ENDF71x	ENDF/B-VII.1	1988	293.6	22870	1010	20.0	no	nubar	no	no	no	
88223.711nc	221.103	ENDF71x	ENDF/B-VII.1	1988	600.0	22950	1020	20.0	no	nubar	no	no	no	
88223.712nc	221.103	ENDF71x	ENDF/B-VII.1	1988	900.0	22966	1022	20.0	no	nubar	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
88223.713nc	221.103	ENDF71x	ENDF/B-VII.1	1988	1200.0	22862	1009	20.0	no	nubar	no	no	no	
88223.714nc	221.103	ENDF71x	ENDF/B-VII.1	1988	2500.0	22950	1020	20.0	no	nubar	no	no	no	
88223.715nc	221.103	ENDF71x	ENDF/B-VII.1	1988	0.1	22910	1015	20.0	no	nubar	no	no	no	
88223.716nc	221.103	ENDF71x	ENDF/B-VII.1	1988	250.0	22950	1020	20.0	no	nubar	no	no	no	
Ra-224														
88224.80c	222.096	ENDF71x	ENDF/B-VII.1	1988	293.6	19490	969	20.0	no	no	no	no	no	
88224.81c	222.096	ENDF71x	ENDF/B-VII.1	1988	600.0	19441	962	20.0	no	no	no	no	no	
88224.82c	222.096	ENDF71x	ENDF/B-VII.1	1988	900.0	19504	971	20.0	no	no	no	no	no	
88224.83c	222.096	ENDF71x	ENDF/B-VII.1	1988	1200.0	19504	971	20.0	no	no	no	no	no	
88224.84c	222.096	ENDF71x	ENDF/B-VII.1	1988	2500.0	19448	963	20.0	no	no	no	no	no	
88224.85c	222.096	ENDF71x	ENDF/B-VII.1	1988	0.1	19196	927	20.0	no	no	no	no	no	
88224.86c	222.096	ENDF71x	ENDF/B-VII.1	1988	250.0	19483	968	20.0	no	no	no	no	no	
88224.70c	222.096	endf70k	ENDF/B-VII.0	1988	293.6	19490	969	20	no	no	no	no	no	
88224.71c	222.096	endf70k	ENDF/B-VII.0	1988	600	19441	962	20	no	no	no	no	no	
88224.72c	222.096	endf70k	ENDF/B-VII.0	1988	900	19504	971	20	no	no	no	no	no	
88224.73c	222.096	endf70k	ENDF/B-VII.0	1988	1200	19504	971	20	no	no	no	no	no	
88224.74c	222.096	endf70k	ENDF/B-VII.0	1988	2500	19448	963	20	no	no	no	no	no	
88224.710nc	222.096	ENDF71x	ENDF/B-VII.1	1988	293.6	19490	969	20.0	no	no	no	no	no	
88224.711nc	222.096	ENDF71x	ENDF/B-VII.1	1988	600.0	19441	962	20.0	no	no	no	no	no	
88224.712nc	222.096	ENDF71x	ENDF/B-VII.1	1988	900.0	19504	971	20.0	no	no	no	no	no	
88224.713nc	222.096	ENDF71x	ENDF/B-VII.1	1988	1200.0	19504	971	20.0	no	no	no	no	no	
88224.714nc	222.096	ENDF71x	ENDF/B-VII.1	1988	2500.0	19448	963	20.0	no	no	no	no	no	
88224.715nc	222.096	ENDF71x	ENDF/B-VII.1	1988	0.1	19196	927	20.0	no	no	no	no	no	
88224.716nc	222.096	ENDF71x	ENDF/B-VII.1	1988	250.0	19483	968	20.0	no	no	no	no	no	
Ra-225														

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
88225.80c	223.091	ENDF71x	ENDF/B-VII.1	1988	293.6	16663	965	20.0	no	no	no	no	no	
88225.81c	223.091	ENDF71x	ENDF/B-VII.1	1988	600.0	16593	955	20.0	no	no	no	no	no	
88225.82c	223.091	ENDF71x	ENDF/B-VII.1	1988	900.0	16628	960	20.0	no	no	no	no	no	
88225.83c	223.091	ENDF71x	ENDF/B-VII.1	1988	1200.0	16663	965	20.0	no	no	no	no	no	
88225.84c	223.091	ENDF71x	ENDF/B-VII.1	1988	2500.0	16572	952	20.0	no	no	no	no	no	
88225.85c	223.091	ENDF71x	ENDF/B-VII.1	1988	0.1	16621	959	20.0	no	no	no	no	no	
88225.86c	223.091	ENDF71x	ENDF/B-VII.1	1993	250.0	16663	965	20.0	no	no	no	no	no	
88225.70c	223.091	endf70k	ENDF/B-VII.0	1988	293.6	16663	965	20	no	no	no	no	no	
88225.71c	223.091	endf70k	ENDF/B-VII.0	1988	600	16593	955	20	no	no	no	no	no	
88225.72c	223.091	endf70k	ENDF/B-VII.0	1988	900	16628	960	20	no	no	no	no	no	
88225.73c	223.091	endf70k	ENDF/B-VII.0	1988	1200	16663	965	20	no	no	no	no	no	
88225.74c	223.091	endf70k	ENDF/B-VII.0	1988	2500	16572	952	20	no	no	no	no	no	
88225.710nc	223.091	ENDF71x	ENDF/B-VII.1	1988	293.6	16663	965	20.0	no	no	no	no	no	
88225.711nc	223.091	ENDF71x	ENDF/B-VII.1	1988	600.0	16593	955	20.0	no	no	no	no	no	
88225.712nc	223.091	ENDF71x	ENDF/B-VII.1	1988	900.0	16628	960	20.0	no	no	no	no	no	
88225.713nc	223.091	ENDF71x	ENDF/B-VII.1	1988	1200.0	16663	965	20.0	no	no	no	no	no	
88225.714nc	223.091	ENDF71x	ENDF/B-VII.1	1988	2500.0	16572	952	20.0	no	no	no	no	no	
88225.715nc	223.091	ENDF71x	ENDF/B-VII.1	1988	0.1	16621	959	20.0	no	no	no	no	no	
88225.716nc	223.091	ENDF71x	ENDF/B-VII.1	1988	250.0	16663	965	20.0	no	no	no	no	no	
Ra-226														
88226.80c	224.084	ENDF71x	ENDF/B-VII.1	1993	293.6	102211	10723	20.0	no	nubar	no	no	no	
88226.81c	224.084	ENDF71x	ENDF/B-VII.1	1993	600.0	98211	10223	20.0	no	nubar	no	no	no	
88226.82c	224.084	ENDF71x	ENDF/B-VII.1	1993	900.0	95787	9920	20.0	no	nubar	no	no	no	
88226.83c	224.084	ENDF71x	ENDF/B-VII.1	1993	1200.0	93371	9618	20.0	no	nubar	no	no	no	
88226.84c	224.084	ENDF71x	ENDF/B-VII.1	1993	2500.0	89315	9111	20.0	no	nubar	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
88226.85c	224.084	ENDF71x	ENDF/B-VII.1	1993	0.1	134235	14726	20.0	no	nubar	no	no	no	
88226.86c	224.084	ENDF71x	ENDF/B-VII.1	1993	250.0	103267	10855	20.0	no	nubar	no	no	no	
88226.70c	224.084	endf70k	ENDF/B-VII.0	1993	293.6	102219	10724	20	no	tot	no	no	no	
88226.71c	224.084	endf70k	ENDF/B-VII.0	1993	600	98219	10224	20	no	tot	no	no	no	
88226.72c	224.084	endf70k	ENDF/B-VII.0	1993	900	95795	9921	20	no	tot	no	no	no	
88226.73c	224.084	endf70k	ENDF/B-VII.0	1993	1200	93379	9619	20	no	tot	no	no	no	
88226.74c	224.084	endf70k	ENDF/B-VII.0	1993	2500	89323	9112	20	no	tot	no	no	no	
88226.710nc	224.084	ENDF71x	ENDF/B-VII.1	1993	293.6	102211	10723	20.0	no	nubar	no	no	no	
88226.711nc	224.084	ENDF71x	ENDF/B-VII.1	1993	600.0	98211	10223	20.0	no	nubar	no	no	no	
88226.712nc	224.084	ENDF71x	ENDF/B-VII.1	1993	900.0	95787	9920	20.0	no	nubar	no	no	no	
88226.713nc	224.084	ENDF71x	ENDF/B-VII.1	1993	1200.0	93371	9618	20.0	no	nubar	no	no	no	
88226.714nc	224.084	ENDF71x	ENDF/B-VII.1	1993	2500.0	89315	9111	20.0	no	nubar	no	no	no	
88226.715nc	224.084	ENDF71x	ENDF/B-VII.1	1993	0.1	134235	14726	20.0	no	nubar	no	no	no	
88226.716nc	224.084	ENDF71x	ENDF/B-VII.1	1993	250.0	103267	10855	20.0	no	nubar	no	no	no	
Z = 89, actinium														
Ac-225														
89225.80c	223.09	ENDF71x	ENDF/B-VII.1	2010	293.6	257844	970	20.0	yes	both	no	no	no	
89225.81c	223.09	ENDF71x	ENDF/B-VII.1	2010	600.0	257844	970	20.0	yes	both	no	no	no	
89225.82c	223.09	ENDF71x	ENDF/B-VII.1	2010	900.0	257880	974	20.0	yes	both	no	no	no	
89225.83c	223.09	ENDF71x	ENDF/B-VII.1	2010	1200.0	257754	960	20.0	yes	both	no	no	no	
89225.84c	223.09	ENDF71x	ENDF/B-VII.1	2010	2500.0	257646	948	20.0	yes	both	no	no	no	
89225.85c	223.09	ENDF71x	ENDF/B-VII.1	2010	0.1	257691	953	20.0	yes	both	no	no	no	
89225.86c	223.09	ENDF71x	ENDF/B-VII.1	2010	250.0	257943	981	20.0	yes	both	no	no	no	
89225.70c	223.09	endf70k	ENDF/B-VII.0	1988	293.6	13036	857	20	no	no	no	no	no	
89225.71c	223.09	endf70k	ENDF/B-VII.0	1988	600	13015	854	20	no	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
89225.72c	223.09	endf70k	ENDF/B-VII.0	1988	900	13022	855	20	no	no	no	no	no	
89225.73c	223.09	endf70k	ENDF/B-VII.0	1988	1200	13022	855	20	no	no	no	no	no	
89225.74c	223.09	endf70k	ENDF/B-VII.0	1988	2500	12980	849	20	no	no	no	no	no	
89225.710nc	223.09	ENDF71x	ENDF/B-VII.1	2010	293.6	257844	970	20.0	yes	both	no	no	no	
89225.711nc	223.09	ENDF71x	ENDF/B-VII.1	2010	600.0	257844	970	20.0	yes	both	no	no	no	
89225.712nc	223.09	ENDF71x	ENDF/B-VII.1	2010	900.0	257880	974	20.0	yes	both	no	no	no	
89225.713nc	223.09	ENDF71x	ENDF/B-VII.1	2010	1200.0	257754	960	20.0	yes	both	no	no	no	
89225.714nc	223.09	ENDF71x	ENDF/B-VII.1	2010	2500.0	257646	948	20.0	yes	both	no	no	no	
89225.715nc	223.09	ENDF71x	ENDF/B-VII.1	2010	0.1	257691	953	20.0	yes	both	no	no	no	
89225.716nc	223.09	ENDF71x	ENDF/B-VII.1	2010	250.0	257943	981	20.0	yes	both	no	no	no	
Ac-226														
89226.80c	224.084	ENDF71x	ENDF/B-VII.1	2010	293.6	269845	854	20.0	yes	both	no	no	no	
89226.81c	224.084	ENDF71x	ENDF/B-VII.1	2010	600.0	269764	845	20.0	yes	both	no	no	no	
89226.82c	224.084	ENDF71x	ENDF/B-VII.1	2010	900.0	269746	843	20.0	yes	both	no	no	no	
89226.83c	224.084	ENDF71x	ENDF/B-VII.1	2010	1200.0	269755	844	20.0	yes	both	no	no	no	
89226.84c	224.084	ENDF71x	ENDF/B-VII.1	2010	2500.0	269665	834	20.0	yes	both	no	no	no	
89226.85c	224.084	ENDF71x	ENDF/B-VII.1	2010	0.1	269395	804	20.0	yes	both	no	no	no	
89226.86c	224.084	ENDF71x	ENDF/B-VII.1	2010	250.0	269836	853	20.0	yes	both	no	no	no	
89226.70c	224.084	endf70k	ENDF/B-VII.0	1988	293.6	14753	1046	20	no	no	no	no	no	
89226.71c	224.084	endf70k	ENDF/B-VII.0	1988	600	14788	1051	20	no	no	no	no	no	
89226.72c	224.084	endf70k	ENDF/B-VII.0	1988	900	14669	1034	20	no	no	no	no	no	
89226.73c	224.084	endf70k	ENDF/B-VII.0	1988	1200	14711	1040	20	no	no	no	no	no	
89226.74c	224.084	endf70k	ENDF/B-VII.0	1988	2500	14718	1041	20	no	no	no	no	no	
89226.710nc	224.084	ENDF71x	ENDF/B-VII.1	2010	293.6	269845	854	20.0	yes	both	no	no	no	
89226.711nc	224.084	ENDF71x	ENDF/B-VII.1	2010	600.0	269764	845	20.0	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
89226.712nc	224.084	ENDF71x	ENDF/B-VII.1	2010	900.0	269746	843	20.0	yes	both	no	no	no	
89226.713nc	224.084	ENDF71x	ENDF/B-VII.1	2010	1200.0	269755	844	20.0	yes	both	no	no	no	
89226.714nc	224.084	ENDF71x	ENDF/B-VII.1	2010	2500.0	269665	834	20.0	yes	both	no	no	no	
89226.715nc	224.084	ENDF71x	ENDF/B-VII.1	2010	0.1	269395	804	20.0	yes	both	no	no	no	
89226.716nc	224.084	ENDF71x	ENDF/B-VII.1	2010	250.0	269836	853	20.0	yes	both	no	no	no	
Ac-227														
89227.80c	225.077	ENDF71x	ENDF/B-VII.1	2010	293.6	273026	855	20.0	yes	both	no	no	no	
89227.81c	225.077	ENDF71x	ENDF/B-VII.1	2010	600.0	273017	854	20.0	yes	both	no	no	no	
89227.82c	225.077	ENDF71x	ENDF/B-VII.1	2010	900.0	273008	853	20.0	yes	both	no	no	no	
89227.83c	225.077	ENDF71x	ENDF/B-VII.1	2010	1200.0	272990	851	20.0	yes	both	no	no	no	
89227.84c	225.077	ENDF71x	ENDF/B-VII.1	2010	2500.0	272999	852	20.0	yes	both	no	no	no	
89227.85c	225.077	ENDF71x	ENDF/B-VII.1	2010	0.1	273089	862	20.0	yes	both	no	no	no	
89227.86c	225.077	ENDF71x	ENDF/B-VII.1	2010	250.0	273035	856	20.0	yes	both	no	no	no	
89227.70c	225.077	endf70k	ENDF/B-VII.0	1988	293.6	21377	1085	20	no	tot	no	no	no	
89227.71c	225.077	endf70k	ENDF/B-VII.0	1988	600	21449	1094	20	no	tot	no	no	no	
89227.72c	225.077	endf70k	ENDF/B-VII.0	1988	900	21465	1096	20	no	tot	no	no	no	
89227.73c	225.077	endf70k	ENDF/B-VII.0	1988	1200	21345	1081	20	no	tot	no	no	no	
89227.74c	225.077	endf70k	ENDF/B-VII.0	1988	2500	21465	1096	20	no	tot	no	no	no	
89227.710nc	225.077	ENDF71x	ENDF/B-VII.1	2010	293.6	273026	855	20.0	yes	both	no	no	no	
89227.711nc	225.077	ENDF71x	ENDF/B-VII.1	2010	600.0	273017	854	20.0	yes	both	no	no	no	
89227.712nc	225.077	ENDF71x	ENDF/B-VII.1	2010	900.0	273008	853	20.0	yes	both	no	no	no	
89227.713nc	225.077	ENDF71x	ENDF/B-VII.1	2010	1200.0	272990	851	20.0	yes	both	no	no	no	
89227.714nc	225.077	ENDF71x	ENDF/B-VII.1	2010	2500.0	272999	852	20.0	yes	both	no	no	no	
89227.715nc	225.077	ENDF71x	ENDF/B-VII.1	2010	0.1	273089	862	20.0	yes	both	no	no	no	
89227.716nc	225.077	ENDF71x	ENDF/B-VII.1	2010	250.0	273035	856	20.0	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
					Z = 90, thorium									
Th-227														
90227.80c	225.077	ENDF71x	ENDF/B-VII.1	2010	293.6	313483	755	20.0	yes	both	no	yes	no	
90227.81c	225.077	ENDF71x	ENDF/B-VII.1	2010	600.0	313474	754	20.0	yes	both	no	yes	no	
90227.82c	225.077	ENDF71x	ENDF/B-VII.1	2010	900.0	313465	753	20.0	yes	both	no	yes	no	
90227.83c	225.077	ENDF71x	ENDF/B-VII.1	2010	1200.0	313465	753	20.0	yes	both	no	yes	no	
90227.84c	225.077	ENDF71x	ENDF/B-VII.1	2010	2500.0	313465	753	20.0	yes	both	no	yes	no	
90227.85c	225.077	ENDF71x	ENDF/B-VII.1	2010	0.1	313510	758	20.0	yes	both	no	yes	no	
90227.86c	225.077	ENDF71x	ENDF/B-VII.1	2010	250.0	313483	755	20.0	yes	both	no	yes	no	
90227.70c	225.077	endf70k	ENDF/B-VII.0	1994	293.6	15012	939	20	no	both	no	no	no	
90227.71c	225.077	endf70k	ENDF/B-VII.0	1994	600	14956	932	20	no	both	no	no	no	
90227.72c	225.077	endf70k	ENDF/B-VII.0	1994	900	14948	931	20	no	both	no	no	no	
90227.73c	225.077	endf70k	ENDF/B-VII.0	1994	1200	14956	932	20	no	both	no	no	no	
90227.74c	225.077	endf70k	ENDF/B-VII.0	1994	2500	14860	920	20	no	both	no	no	no	
90227.710nc	225.077	ENDF71x	ENDF/B-VII.1	2010	293.6	313483	755	20.0	yes	both	no	yes	no	
90227.711nc	225.077	ENDF71x	ENDF/B-VII.1	2010	600.0	313474	754	20.0	yes	both	no	yes	no	
90227.712nc	225.077	ENDF71x	ENDF/B-VII.1	2010	900.0	313465	753	20.0	yes	both	no	yes	no	
90227.713nc	225.077	ENDF71x	ENDF/B-VII.1	2010	1200.0	313465	753	20.0	yes	both	no	yes	no	
90227.714nc	225.077	ENDF71x	ENDF/B-VII.1	2010	2500.0	313465	753	20.0	yes	both	no	yes	no	
90227.715nc	225.077	ENDF71x	ENDF/B-VII.1	2010	0.1	313510	758	20.0	yes	both	no	yes	no	
90227.716nc	225.077	ENDF71x	ENDF/B-VII.1	2010	250.0	313483	755	20.0	yes	both	no	yes	no	
Th-228														
90228.80c	226.07	ENDF71x	ENDF/B-VII.1	2010	293.6	363687	1529	20.0	yes	both	no	no	yes	
90228.81c	226.07	ENDF71x	ENDF/B-VII.1	2010	600.0	363291	1485	20.0	yes	both	no	no	yes	
90228.82c	226.07	ENDF71x	ENDF/B-VII.1	2010	900.0	363147	1469	20.0	yes	both	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
90228.83c	226.07	ENDF71x	ENDF/B-VII.1	2010	1200.0	363048	1458	20.0	yes	both	no	no	yes	
90228.84c	226.07	ENDF71x	ENDF/B-VII.1	2010	2500.0	362553	1403	20.0	yes	both	no	no	yes	
90228.85c	226.07	ENDF71x	ENDF/B-VII.1	2010	0.1	364470	1616	20.0	yes	both	no	no	yes	
90228.86c	226.07	ENDF71x	ENDF/B-VII.1	2010	250.0	363795	1541	20.0	yes	both	no	no	yes	
90228.70c	226.07	endf70k	ENDF/B-VII.0	2005	293.6	33964	1713	20	no	both	no	no	no	
90228.71c	226.07	endf70k	ENDF/B-VII.0	2005	600	33580	1665	20	no	both	no	no	no	
90228.72c	226.07	endf70k	ENDF/B-VII.0	2005	900	33364	1638	20	no	both	no	no	no	
90228.73c	226.07	endf70k	ENDF/B-VII.0	2005	1200	33212	1619	20	no	both	no	no	no	
90228.74c	226.07	endf70k	ENDF/B-VII.0	2005	2500	32852	1574	20	no	both	no	no	no	
90228.710nc	226.07	ENDF71x	ENDF/B-VII.1	2010	293.6	363687	1529	20.0	yes	both	no	no	yes	
90228.711nc	226.07	ENDF71x	ENDF/B-VII.1	2010	600.0	363291	1485	20.0	yes	both	no	no	yes	
90228.712nc	226.07	ENDF71x	ENDF/B-VII.1	2010	900.0	363147	1469	20.0	yes	both	no	no	yes	
90228.713nc	226.07	ENDF71x	ENDF/B-VII.1	2010	1200.0	363048	1458	20.0	yes	both	no	no	yes	
90228.714nc	226.07	ENDF71x	ENDF/B-VII.1	2010	2500.0	362553	1403	20.0	yes	both	no	no	yes	
90228.715nc	226.07	ENDF71x	ENDF/B-VII.1	2010	0.1	364470	1616	20.0	yes	both	no	no	yes	
90228.716nc	226.07	ENDF71x	ENDF/B-VII.1	2010	250.0	363795	1541	20.0	yes	both	no	no	yes	
Th-229														
90229.80c	227.064	ENDF71x	ENDF/B-VII.1	2010	293.6	357452	2478	20.0	yes	both	no	yes	yes	
90229.81c	227.064	ENDF71x	ENDF/B-VII.1	2010	600.0	356462	2368	20.0	yes	both	no	yes	yes	
90229.82c	227.064	ENDF71x	ENDF/B-VII.1	2010	900.0	355814	2296	20.0	yes	both	no	yes	yes	
90229.83c	227.064	ENDF71x	ENDF/B-VII.1	2010	1200.0	355004	2206	20.0	yes	both	no	yes	yes	
90229.84c	227.064	ENDF71x	ENDF/B-VII.1	2010	2500.0	352988	1982	20.0	yes	both	no	yes	yes	
90229.85c	227.064	ENDF71x	ENDF/B-VII.1	2010	0.1	359963	2757	20.0	yes	both	no	yes	yes	
90229.86c	227.064	ENDF71x	ENDF/B-VII.1	2010	250.0	357596	2494	20.0	yes	both	no	yes	yes	
90229.70c	227.064	endf70k	ENDF/B-VII.0	2006	293.6	29314	2534	20	no	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
90229.71c	227.064	endf70k	ENDF/B-VII.0	2006	600	28706	2458	20	no	both	no	no	no	
90229.72c	227.064	endf70k	ENDF/B-VII.0	2006	900	28226	2398	20	no	both	no	no	no	
90229.73c	227.064	endf70k	ENDF/B-VII.0	2006	1200	27530	2311	20	no	both	no	no	no	
90229.74c	227.064	endf70k	ENDF/B-VII.0	2006	2500	26178	2142	20	no	both	no	no	no	
90229.710nc	227.064	ENDF71x	ENDF/B-VII.1	2010	293.6	357452	2478	20.0	yes	both	no	yes	yes	
90229.711nc	227.064	ENDF71x	ENDF/B-VII.1	2010	600.0	356462	2368	20.0	yes	both	no	yes	yes	
90229.712nc	227.064	ENDF71x	ENDF/B-VII.1	2010	900.0	355814	2296	20.0	yes	both	no	yes	yes	
90229.713nc	227.064	ENDF71x	ENDF/B-VII.1	2010	1200.0	355004	2206	20.0	yes	both	no	yes	yes	
90229.714nc	227.064	ENDF71x	ENDF/B-VII.1	2010	2500.0	352988	1982	20.0	yes	both	no	yes	yes	
90229.715nc	227.064	ENDF71x	ENDF/B-VII.1	2010	0.1	359963	2757	20.0	yes	both	no	yes	yes	
90229.716nc	227.064	ENDF71x	ENDF/B-VII.1	2010	250.0	357596	2494	20.0	yes	both	no	yes	yes	
Th-230														
90230.80c	228.057	ENDF71x	ENDF/B-VII.1	2010	293.6	362351	10765	20.0	yes	both	no	no	yes	
90230.81c	228.057	ENDF71x	ENDF/B-VII.1	2010	600.0	357887	10269	20.0	yes	both	no	no	yes	
90230.82c	228.057	ENDF71x	ENDF/B-VII.1	2010	900.0	354710	9916	20.0	yes	both	no	no	yes	
90230.83c	228.057	ENDF71x	ENDF/B-VII.1	2010	1200.0	352136	9630	20.0	yes	both	no	no	yes	
90230.84c	228.057	ENDF71x	ENDF/B-VII.1	2010	2500.0	346421	8995	20.0	yes	both	no	no	yes	
90230.85c	228.057	ENDF71x	ENDF/B-VII.1	2010	0.1	387398	13548	20.0	yes	both	no	no	yes	
90230.86c	228.057	ENDF71x	ENDF/B-VII.1	2010	250.0	363629	10907	20.0	yes	both	no	no	yes	
90230.70c	228.06	endf70k	ENDF/B-VII.0	1977	293.6	63484	8278	20	no	tot	no	no	no	
90230.71c	228.06	endf70k	ENDF/B-VII.0	1977	600	61122	7941	20	no	tot	no	no	no	
90230.72c	228.06	endf70k	ENDF/B-VII.0	1977	900	59139	7657	20	no	tot	no	no	no	
90230.73c	228.06	endf70k	ENDF/B-VII.0	1977	1200	57412	7412	20	no	tot	no	no	no	
90230.74c	228.06	endf70k	ENDF/B-VII.0	1977	2500	54517	6998	20	no	tot	no	no	no	
90230.66c	228.06	endf66c	ENDF/B-VI.0	1977	293.6	64761	8428	20	no	tot	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
90230.60c	228.06	endf60	ENDF/B-VI.0	1977	293.6	35155	5533	20	no	tot	no	no	no	
90230.710nc	228.057	ENDF71x	ENDF/B-VII.1	2010	293.6	362351	10765	20.0	yes	both	no	no	yes	
90230.711nc	228.057	ENDF71x	ENDF/B-VII.1	2010	600.0	357887	10269	20.0	yes	both	no	no	yes	
90230.712nc	228.057	ENDF71x	ENDF/B-VII.1	2010	900.0	354710	9916	20.0	yes	both	no	no	yes	
90230.713nc	228.057	ENDF71x	ENDF/B-VII.1	2010	1200.0	352136	9630	20.0	yes	both	no	no	yes	
90230.714nc	228.057	ENDF71x	ENDF/B-VII.1	2010	2500.0	346421	8995	20.0	yes	both	no	no	yes	
90230.715nc	228.057	ENDF71x	ENDF/B-VII.1	2010	0.1	387398	13548	20.0	yes	both	no	no	yes	
90230.716nc	228.057	ENDF71x	ENDF/B-VII.1	2010	250.0	363629	10907	20.0	yes	both	no	no	yes	
Th-231														
90231.80c	229.052	ENDF71x	ENDF/B-VII.1	2010	293.6	323600	865	20.0	yes	both	no	no	no	
90231.81c	229.052	ENDF71x	ENDF/B-VII.1	2010	600.0	323645	870	20.0	yes	both	no	no	no	
90231.82c	229.052	ENDF71x	ENDF/B-VII.1	2010	900.0	323627	868	20.0	yes	both	no	no	no	
90231.83c	229.052	ENDF71x	ENDF/B-VII.1	2010	1200.0	323546	859	20.0	yes	both	no	no	no	
90231.84c	229.052	ENDF71x	ENDF/B-VII.1	2010	2500.0	323546	859	20.0	yes	both	no	no	no	
90231.85c	229.052	ENDF71x	ENDF/B-VII.1	2010	0.1	323555	860	20.0	yes	both	no	no	no	
90231.86c	229.052	ENDF71x	ENDF/B-VII.1	2010	250.0	323564	861	20.0	yes	both	no	no	no	
90231.42c	229.0516	endl92	LLNL	<1992	300	15712	187	30	yes	both	no	no	no	
90231.710nc	229.052	ENDF71x	ENDF/B-VII.1	2010	293.6	323600	865	20.0	yes	both	no	no	no	
90231.711nc	229.052	ENDF71x	ENDF/B-VII.1	2010	600.0	323645	870	20.0	yes	both	no	no	no	
90231.712nc	229.052	ENDF71x	ENDF/B-VII.1	2010	900.0	323627	868	20.0	yes	both	no	no	no	
90231.713nc	229.052	ENDF71x	ENDF/B-VII.1	2010	1200.0	323546	859	20.0	yes	both	no	no	no	
90231.714nc	229.052	ENDF71x	ENDF/B-VII.1	2010	2500.0	323546	859	20.0	yes	both	no	no	no	
90231.715nc	229.052	ENDF71x	ENDF/B-VII.1	2010	0.1	323555	860	20.0	yes	both	no	no	no	
90231.716nc	229.052	ENDF71x	ENDF/B-VII.1	2010	250.0	323564	861	20.0	yes	both	no	no	no	
Th-232														

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
90232.80c	230.045	ENDF71x	ENDF/B-VII.1	2006	293.6	2509890	58002	60.0	yes	both	yes	yes	yes	
90232.81c	230.045	ENDF71x	ENDF/B-VII.1	2006	600.0	2454425	51069	60.0	yes	both	yes	yes	yes	
90232.82c	230.045	ENDF71x	ENDF/B-VII.1	2006	900.0	2426076	47525	60.0	yes	both	yes	yes	yes	
90232.83c	230.045	ENDF71x	ENDF/B-VII.1	2006	1200.0	2404859	44873	60.0	yes	both	yes	yes	yes	
90232.84c	230.045	ENDF71x	ENDF/B-VII.1	2006	2500.0	2357415	38940	60.0	yes	both	yes	yes	yes	
90232.85c	230.045	ENDF71x	ENDF/B-VII.1	2006	0.1	2976768	116364	60.0	yes	both	yes	yes	yes	
90232.86c	230.045	ENDF71x	ENDF/B-VII.1	2006	250.0	2523355	59685	60.0	yes	both	yes	yes	yes	
90232.70c	230.045	endf70k	ENDF/B-VII.0	2006	293.6	2440600	58038	60	yes	both	yes	yes	yes	
90232.71c	230.045	endf70k	ENDF/B-VII.0	2006	600	2385142	51106	60	yes	both	yes	yes	yes	
90232.72c	230.045	endf70k	ENDF/B-VII.0	2006	900	2356785	47561	60	yes	both	yes	yes	yes	
90232.73c	230.045	endf70k	ENDF/B-VII.0	2006	1200	2335625	44916	60	yes	both	yes	yes	yes	
90232.74c	230.045	endf70k	ENDF/B-VII.0	2006	2500	2288165	38981	60	yes	both	yes	yes	yes	
90232.66c	230.04	endf66c	ENDF/B-VI.0	1977	293.6	362871	41487	20	yes	both	no	yes	yes	
90232.65c	230.04	endf66e	ENDF/B-VI.0	1977	3000.1	238295	25915	20	yes	both	no	yes	yes	
90232.60c	230.04	endf60	ENDF/B-VI.0	1977	293.6	127606	16381	20	yes	both	no	no	no	
90232.48c	230.04	uresa	ENDF/B-VI.0	1977	300	305942	41414	20	no	both	no	no	yes	15
90232.61c	230.04	endf6dn	ENDF/B-VI.0	1977	293.6	132594	16381	20	yes	both	no	yes	no	
90232.51c	230.04	rmccs	ENDF/B-V.0	1977	293.6	17925	1062	20	yes	both	no	no	no	
90232.50c	230.04	endf5u	ENDF/B-V.0	1977	293.6	152782	17901	20	yes	both	no	no	no	
90232.42c	230.0447	endl92	LLNL	<1992	300	109829	13719	30	yes	both	no	no	no	
90232.710nc	230.045	ENDF71x	ENDF/B-VII.1	2006	293.6	2509890	58002	60.0	yes	both	yes	yes	yes	
90232.711nc	230.045	ENDF71x	ENDF/B-VII.1	2006	600.0	2454425	51069	60.0	yes	both	yes	yes	yes	
90232.712nc	230.045	ENDF71x	ENDF/B-VII.1	2006	900.0	2426076	47525	60.0	yes	both	yes	yes	yes	
90232.713nc	230.045	ENDF71x	ENDF/B-VII.1	2006	1200.0	2404859	44873	60.0	yes	both	yes	yes	yes	
90232.714nc	230.045	ENDF71x	ENDF/B-VII.1	2006	2500.0	2357415	38940	60.0	yes	both	yes	yes	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
90232.715nc	230.045	ENDF71x	ENDF/B-VII.1	2006	0.1	2976768	116364	60.0	yes	both	yes	yes	yes	
90232.716nc	230.045	ENDF71x	ENDF/B-VII.1	2006	250.0	2523355	59685	60.0	yes	both	yes	yes	yes	
Th-233														
90233.80c	231.04	ENDF71x	ENDF/B-VII.1	2010	293.6	292031	820	20.0	yes	both	no	no	no	
90233.81c	231.04	ENDF71x	ENDF/B-VII.1	2010	600.0	291977	814	20.0	yes	both	no	no	no	
90233.82c	231.04	ENDF71x	ENDF/B-VII.1	2010	900.0	292004	817	20.0	yes	both	no	no	no	
90233.83c	231.04	ENDF71x	ENDF/B-VII.1	2010	1200.0	292004	817	20.0	yes	both	no	no	no	
90233.84c	231.04	ENDF71x	ENDF/B-VII.1	2010	2500.0	291941	810	20.0	yes	both	no	no	no	
90233.85c	231.04	ENDF71x	ENDF/B-VII.1	2010	0.1	292013	818	20.0	yes	both	no	no	no	
90233.86c	231.04	ENDF71x	ENDF/B-VII.1	2010	250.0	292013	818	20.0	yes	both	no	no	no	
90233.70c	231.04	endf70k	ENDF/B-VII.0	1994	293.6	32764	1100	20	no	both	no	no	no	
90233.71c	231.04	endf70k	ENDF/B-VII.0	1994	600	32764	1100	20	no	both	no	no	no	
90233.72c	231.04	endf70k	ENDF/B-VII.0	1994	900	32764	1100	20	no	both	no	no	no	
90233.73c	231.04	endf70k	ENDF/B-VII.0	1994	1200	32764	1100	20	no	both	no	no	no	
90233.74c	231.04	endf70k	ENDF/B-VII.0	1994	2500	32764	1100	20	no	both	no	no	no	
90233.42c	231.0396	endl92	LLNL	<1992	300	16015	206	30	yes	both	no	no	no	
90233.710nc	231.04	ENDF71x	ENDF/B-VII.1	2010	293.6	292031	820	20.0	yes	both	no	no	no	
90233.711nc	231.04	ENDF71x	ENDF/B-VII.1	2010	600.0	291977	814	20.0	yes	both	no	no	no	
90233.712nc	231.04	ENDF71x	ENDF/B-VII.1	2010	900.0	292004	817	20.0	yes	both	no	no	no	
90233.713nc	231.04	ENDF71x	ENDF/B-VII.1	2010	1200.0	292004	817	20.0	yes	both	no	no	no	
90233.714nc	231.04	ENDF71x	ENDF/B-VII.1	2010	2500.0	291941	810	20.0	yes	both	no	no	no	
90233.715nc	231.04	ENDF71x	ENDF/B-VII.1	2010	0.1	292013	818	20.0	yes	both	no	no	no	
90233.716nc	231.04	ENDF71x	ENDF/B-VII.1	2010	250.0	292013	818	20.0	yes	both	no	no	no	
Th-234														
90234.80c	232.033	ENDF71x	ENDF/B-VII.1	2010	293.6	224444	1029	20.0	yes	both	no	no	no	

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
90234.81c	232.033	ENDF71x	ENDF/B-VII.1	2010	600.0	224552	1041	20.0	yes	both	no	no	no	
90234.82c	232.033	ENDF71x	ENDF/B-VII.1	2010	900.0	224471	1032	20.0	yes	both	no	no	no	
90234.83c	232.033	ENDF71x	ENDF/B-VII.1	2010	1200.0	224462	1031	20.0	yes	both	no	no	no	
90234.84c	232.033	ENDF71x	ENDF/B-VII.1	2010	2500.0	224615	1048	20.0	yes	both	no	no	no	
90234.85c	232.033	ENDF71x	ENDF/B-VII.1	2010	0.1	224039	984	20.0	yes	both	no	no	no	
90234.86c	232.033	ENDF71x	ENDF/B-VII.1	2010	250.0	224399	1024	20.0	yes	both	no	no	no	
90234.70c	232.033	endf70k	ENDF/B-VII.0	1994	293.6	31324	1192	20	no	both	no	no	no	
90234.71c	232.033	endf70k	ENDF/B-VII.0	1994	600	31324	1192	20	no	both	no	no	no	
90234.72c	232.033	endf70k	ENDF/B-VII.0	1994	900	31380	1200	20	no	both	no	no	no	
90234.73c	232.033	endf70k	ENDF/B-VII.0	1994	1200	31366	1198	20	no	both	no	no	no	
90234.74c	232.033	endf70k	ENDF/B-VII.0	1994	2500	31366	1198	20	no	both	no	no	no	
90234.710nc	232.033	ENDF71x	ENDF/B-VII.1	2010	293.6	224444	1029	20.0	yes	both	no	no	no	
90234.711nc	232.033	ENDF71x	ENDF/B-VII.1	2010	600.0	224552	1041	20.0	yes	both	no	no	no	
90234.712nc	232.033	ENDF71x	ENDF/B-VII.1	2010	900.0	224471	1032	20.0	yes	both	no	no	no	
90234.713nc	232.033	ENDF71x	ENDF/B-VII.1	2010	1200.0	224462	1031	20.0	yes	both	no	no	no	
90234.714nc	232.033	ENDF71x	ENDF/B-VII.1	2010	2500.0	224615	1048	20.0	yes	both	no	no	no	
90234.715nc	232.033	ENDF71x	ENDF/B-VII.1	2010	0.1	224039	984	20.0	yes	both	no	no	no	
90234.716nc	232.033	ENDF71x	ENDF/B-VII.1	2010	250.0	224399	1024	20.0	yes	both	no	no	no	
Z = 91, protactinium														
Pa-229														
91229.80c	227.065	ENDF71x	ENDF/B-VII.1	2011	293.6	226043	848	20.0	yes	both	no	no	no	
91229.81c	227.065	ENDF71x	ENDF/B-VII.1	2011	600.0	226196	865	20.0	yes	both	no	no	no	
91229.82c	227.065	ENDF71x	ENDF/B-VII.1	2011	900.0	226016	845	20.0	yes	both	no	no	no	
91229.83c	227.065	ENDF71x	ENDF/B-VII.1	2011	1200.0	225953	838	20.0	yes	both	no	no	no	
91229.84c	227.065	ENDF71x	ENDF/B-VII.1	2011	2500.0	226070	851	20.0	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
91229.85c	227.065	ENDF71x	ENDF/B-VII.1	2011	0.1	225917	834	20.0	yes	both	no	no	no	
91229.86c	227.065	ENDF71x	ENDF/B-VII.1	2011	250.0	226007	844	20.0	yes	both	no	no	no	
91229.710nc	227.065	ENDF71x	ENDF/B-VII.1	2011	293.6	226043	848	20.0	yes	both	no	no	no	
91229.711nc	227.065	ENDF71x	ENDF/B-VII.1	2011	600.0	226196	865	20.0	yes	both	no	no	no	
91229.712nc	227.065	ENDF71x	ENDF/B-VII.1	2011	900.0	226016	845	20.0	yes	both	no	no	no	
91229.713nc	227.065	ENDF71x	ENDF/B-VII.1	2011	1200.0	225953	838	20.0	yes	both	no	no	no	
91229.714nc	227.065	ENDF71x	ENDF/B-VII.1	2011	2500.0	226070	851	20.0	yes	both	no	no	no	
91229.715nc	227.065	ENDF71x	ENDF/B-VII.1	2011	0.1	225917	834	20.0	yes	both	no	no	no	
91229.716nc	227.065	ENDF71x	ENDF/B-VII.1	2011	250.0	226007	844	20.0	yes	both	no	no	no	
Pa-230														
91230.80c	228.058	ENDF71x	ENDF/B-VII.1	2011	293.6	253538	739	20.0	yes	both	no	no	no	
91230.81c	228.058	ENDF71x	ENDF/B-VII.1	2011	600.0	253511	736	20.0	yes	both	no	no	no	
91230.82c	228.058	ENDF71x	ENDF/B-VII.1	2011	900.0	253457	730	20.0	yes	both	no	no	no	
91230.83c	228.058	ENDF71x	ENDF/B-VII.1	2011	1200.0	253457	730	20.0	yes	both	no	no	no	
91230.84c	228.058	ENDF71x	ENDF/B-VII.1	2011	2500.0	253385	722	20.0	yes	both	no	no	no	
91230.85c	228.058	ENDF71x	ENDF/B-VII.1	2011	0.1	253673	754	20.0	yes	both	no	no	no	
91230.86c	228.058	ENDF71x	ENDF/B-VII.1	2011	250.0	253538	739	20.0	yes	both	no	no	no	
91230.710nc	228.058	ENDF71x	ENDF/B-VII.1	2011	293.6	253538	739	20.0	yes	both	no	no	no	
91230.711nc	228.058	ENDF71x	ENDF/B-VII.1	2011	600.0	253511	736	20.0	yes	both	no	no	no	
91230.712nc	228.058	ENDF71x	ENDF/B-VII.1	2011	900.0	253457	730	20.0	yes	both	no	no	no	
91230.713nc	228.058	ENDF71x	ENDF/B-VII.1	2011	1200.0	253457	730	20.0	yes	both	no	no	no	
91230.714nc	228.058	ENDF71x	ENDF/B-VII.1	2011	2500.0	253385	722	20.0	yes	both	no	no	no	
91230.715nc	228.058	ENDF71x	ENDF/B-VII.1	2011	0.1	253673	754	20.0	yes	both	no	no	no	
91230.716nc	228.058	ENDF71x	ENDF/B-VII.1	2011	250.0	253538	739	20.0	yes	both	no	no	no	
Pa-231														

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
91231.80c	229.051	ENDF71x	ENDF/B-VII.1	2006	293.6	1395749	17295	60.0	yes	both	yes	yes	yes	
91231.81c	229.051	ENDF71x	ENDF/B-VII.1	2006	600.0	1367147	14117	60.0	yes	both	yes	yes	yes	
91231.82c	229.051	ENDF71x	ENDF/B-VII.1	2006	900.0	1350011	12213	60.0	yes	both	yes	yes	yes	
91231.83c	229.051	ENDF71x	ENDF/B-VII.1	2006	1200.0	1338932	10982	60.0	yes	both	yes	yes	yes	
91231.84c	229.051	ENDF71x	ENDF/B-VII.1	2006	2500.0	1314362	8252	60.0	yes	both	yes	yes	yes	
91231.85c	229.051	ENDF71x	ENDF/B-VII.1	2006	0.1	1496738	28516	60.0	yes	both	yes	yes	yes	
91231.86c	229.051	ENDF71x	ENDF/B-VII.1	2006	250.0	1401590	17944	60.0	yes	both	yes	yes	yes	
91231.70c	229.051	endf70k	ENDF/B-VII.0	2006	293.6	1397542	17370	60	yes	both	yes	yes	yes	
91231.71c	229.051	endf70k	ENDF/B-VII.0	2006	600	1368940	14192	60	yes	both	yes	yes	yes	
91231.72c	229.051	endf70k	ENDF/B-VII.0	2006	900	1351804	12288	60	yes	both	yes	yes	yes	
91231.73c	229.051	endf70k	ENDF/B-VII.0	2006	1200	1340725	11057	60	yes	both	yes	yes	yes	
91231.74c	229.051	endf70k	ENDF/B-VII.0	2006	2500	1316155	8327	60	yes	both	yes	yes	yes	
91231.66c	229.05	endf66c	ENDF/B-VI.0	1977	293.6	45111	4128	20	no	both	no	yes	yes	
91231.65c	229.05	endf66e	ENDF/B-VI.0	1977	3000.1	31463	2422	20	no	both	no	yes	yes	
91231.60c	229.05	endf60	ENDF/B-VI.0	1977	293.6	19835	2610	20	no	both	no	no	no	
91231.61c	229.05	endf6dn	ENDF/B-VI.0	1977	293.6	24733	2610	20	no	both	no	yes	no	
91231.710nc	229.051	ENDF71x	ENDF/B-VII.1	2006	293.6	1395749	17295	60.0	yes	both	yes	yes	yes	
91231.711nc	229.051	ENDF71x	ENDF/B-VII.1	2006	600.0	1367147	14117	60.0	yes	both	yes	yes	yes	
91231.712nc	229.051	ENDF71x	ENDF/B-VII.1	2006	900.0	1350011	12213	60.0	yes	both	yes	yes	yes	
91231.713nc	229.051	ENDF71x	ENDF/B-VII.1	2006	1200.0	1338932	10982	60.0	yes	both	yes	yes	yes	
91231.714nc	229.051	ENDF71x	ENDF/B-VII.1	2006	2500.0	1314362	8252	60.0	yes	both	yes	yes	yes	
91231.715nc	229.051	ENDF71x	ENDF/B-VII.1	2006	0.1	1496738	28516	60.0	yes	both	yes	yes	yes	
91231.716nc	229.051	ENDF71x	ENDF/B-VII.1	2006	250.0	1401590	17944	60.0	yes	both	yes	yes	yes	
Pa-232														
91232.80c	230.045	ENDF71x	ENDF/B-VII.1	2011	293.6	270830	2570	20.0	yes	both	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
91232.81c	230.045	ENDF71x	ENDF/B-VII.1	2011	600.0	269390	2410	20.0	yes	both	no	no	yes	
91232.82c	230.045	ENDF71x	ENDF/B-VII.1	2011	900.0	268382	2298	20.0	yes	both	no	no	yes	
91232.83c	230.045	ENDF71x	ENDF/B-VII.1	2011	1200.0	267635	2215	20.0	yes	both	no	no	yes	
91232.84c	230.045	ENDF71x	ENDF/B-VII.1	2011	2500.0	265331	1959	20.0	yes	both	no	no	yes	
91232.85c	230.045	ENDF71x	ENDF/B-VII.1	2011	0.1	273674	2886	20.0	yes	both	no	no	yes	
91232.86c	230.045	ENDF71x	ENDF/B-VII.1	2011	250.0	271010	2590	20.0	yes	both	no	no	yes	
91232.70c	230.045	endf70k	ENDF/B-VII.0	2005	293.6	20423	1524	20	no	both	no	no	no	
91232.71c	230.045	endf70k	ENDF/B-VII.0	2005	600	20359	1516	20	no	both	no	no	no	
91232.72c	230.045	endf70k	ENDF/B-VII.0	2005	900	20351	1515	20	no	both	no	no	no	
91232.73c	230.045	endf70k	ENDF/B-VII.0	2005	1200	20223	1499	20	no	both	no	no	no	
91232.74c	230.045	endf70k	ENDF/B-VII.0	2005	2500	19791	1445	20	no	both	no	no	no	
91232.710nc	230.045	ENDF71x	ENDF/B-VII.1	2011	293.6	270830	2570	20.0	yes	both	no	no	yes	
91232.711nc	230.045	ENDF71x	ENDF/B-VII.1	2011	600.0	269390	2410	20.0	yes	both	no	no	yes	
91232.712nc	230.045	ENDF71x	ENDF/B-VII.1	2011	900.0	268382	2298	20.0	yes	both	no	no	yes	
91232.713nc	230.045	ENDF71x	ENDF/B-VII.1	2011	1200.0	267635	2215	20.0	yes	both	no	no	yes	
91232.714nc	230.045	ENDF71x	ENDF/B-VII.1	2011	2500.0	265331	1959	20.0	yes	both	no	no	yes	
91232.715nc	230.045	ENDF71x	ENDF/B-VII.1	2011	0.1	273674	2886	20.0	yes	both	no	no	yes	
91232.716nc	230.045	ENDF71x	ENDF/B-VII.1	2011	250.0	271010	2590	20.0	yes	both	no	no	yes	
Pa-233														
91233.80c	231.038	ENDF71x	ENDF/B-VII.1	2006	293.6	1530870	13950	60.0	yes	both	yes	yes	yes	
91233.81c	231.038	ENDF71x	ENDF/B-VII.1	2006	600.0	1514780	11940	60.0	yes	both	yes	yes	yes	
91233.82c	231.038	ENDF71x	ENDF/B-VII.1	2006	900.0	1504101	10605	60.0	yes	both	yes	yes	yes	
91233.83c	231.038	ENDF71x	ENDF/B-VII.1	2006	1200.0	1496161	9612	60.0	yes	both	yes	yes	yes	
91233.84c	231.038	ENDF71x	ENDF/B-VII.1	2006	2500.0	1475899	7079	60.0	yes	both	yes	yes	yes	
91233.85c	231.038	ENDF71x	ENDF/B-VII.1	2006	0.1	1578801	19951	60.0	yes	both	yes	yes	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
91233.86c	231.038	ENDF71x	ENDF/B-VII.1	2006	250.0	1533871	14325	60.0	yes	both	yes	yes	yes	
91233.70c	231.038	endf70k	ENDF/B-VII.0	2006	293.6	1533057	14062	60	yes	both	yes	yes	yes	
91233.71c	231.038	endf70k	ENDF/B-VII.0	2006	600	1516967	12052	60	yes	both	yes	yes	yes	
91233.72c	231.038	endf70k	ENDF/B-VII.0	2006	900	1506288	10717	60	yes	both	yes	yes	yes	
91233.73c	231.038	endf70k	ENDF/B-VII.0	2006	1200	1498348	9724	60	yes	both	yes	yes	yes	
91233.74c	231.038	endf70k	ENDF/B-VII.0	2006	2500	1478086	7191	60	yes	both	yes	yes	yes	
91233.66c	231.038	endf66c	ENDF/B-VI.0	1974	293.6	50577	6240	20	no	tot	no	no	yes	
91233.65c	231.038	endf66e	ENDF/B-VI.0	1974	3000.1	34848	3993	20	no	tot	no	no	yes	
91233.51c	231.038	rmccs	ENDF/B-V.0	1974	293.6	5641	637	20	no	tot	no	no	no	
91233.50c	231.038	endf5u	ENDF/B-V.0	1974	293.6	19519	2915	20	no	tot	no	no	no	
91233.42c	231.0383	endl92	LLNL	<1992	300	27720	1982	30	yes	both	no	no	no	
91233.710nc	231.038	ENDF71x	ENDF/B-VII.1	2006	293.6	1530870	13950	60.0	yes	both	yes	yes	yes	
91233.711nc	231.038	ENDF71x	ENDF/B-VII.1	2006	600.0	1514780	11940	60.0	yes	both	yes	yes	yes	
91233.712nc	231.038	ENDF71x	ENDF/B-VII.1	2006	900.0	1504101	10605	60.0	yes	both	yes	yes	yes	
91233.713nc	231.038	ENDF71x	ENDF/B-VII.1	2006	1200.0	1496161	9612	60.0	yes	both	yes	yes	yes	
91233.714nc	231.038	ENDF71x	ENDF/B-VII.1	2006	2500.0	1475899	7079	60.0	yes	both	yes	yes	yes	
91233.715nc	231.038	ENDF71x	ENDF/B-VII.1	2006	0.1	1578801	19951	60.0	yes	both	yes	yes	yes	
91233.716nc	231.038	ENDF71x	ENDF/B-VII.1	2006	250.0	1533871	14325	60.0	yes	both	yes	yes	yes	
				Z = 92, uranium										
U-230														
92230.80c	228.058	ENDF71x	ENDF/B-VII.1	2010	293.6	261640	794	20.0	yes	both	no	no	no	
92230.81c	228.058	ENDF71x	ENDF/B-VII.1	2010	600.0	261721	803	20.0	yes	both	no	no	no	
92230.82c	228.058	ENDF71x	ENDF/B-VII.1	2010	900.0	261604	790	20.0	yes	both	no	no	no	
92230.83c	228.058	ENDF71x	ENDF/B-VII.1	2010	1200.0	261613	791	20.0	yes	both	no	no	no	
92230.84c	228.058	ENDF71x	ENDF/B-VII.1	2010	2500.0	261694	800	20.0	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
92230.85c	228.058	ENDF71x	ENDF/B-VII.1	2010	0.1	261613	791	20.0	yes	both	no	no	no	
92230.86c	228.058	ENDF71x	ENDF/B-VII.1	2010	250.0	261613	791	20.0	yes	both	no	no	no	
92230.710nc	228.058	ENDF71x	ENDF/B-VII.1	2010	293.6	261640	794	20.0	yes	both	no	no	no	
92230.711nc	228.058	ENDF71x	ENDF/B-VII.1	2010	600.0	261721	803	20.0	yes	both	no	no	no	
92230.712nc	228.058	ENDF71x	ENDF/B-VII.1	2010	900.0	261604	790	20.0	yes	both	no	no	no	
92230.713nc	228.058	ENDF71x	ENDF/B-VII.1	2010	1200.0	261613	791	20.0	yes	both	no	no	no	
92230.714nc	228.058	ENDF71x	ENDF/B-VII.1	2010	2500.0	261694	800	20.0	yes	both	no	no	no	
92230.715nc	228.058	ENDF71x	ENDF/B-VII.1	2010	0.1	261613	791	20.0	yes	both	no	no	no	
92230.716nc	228.058	ENDF71x	ENDF/B-VII.1	2010	250.0	261613	791	20.0	yes	both	no	no	no	
U-231														
92231.80c	229.052	ENDF71x	ENDF/B-VII.1	2010	293.6	284953	849	20.0	yes	both	no	no	no	
92231.81c	229.052	ENDF71x	ENDF/B-VII.1	2010	600.0	284944	848	20.0	yes	both	no	no	no	
92231.82c	229.052	ENDF71x	ENDF/B-VII.1	2010	900.0	284944	848	20.0	yes	both	no	no	no	
92231.83c	229.052	ENDF71x	ENDF/B-VII.1	2010	1200.0	284827	835	20.0	yes	both	no	no	no	
92231.84c	229.052	ENDF71x	ENDF/B-VII.1	2010	2500.0	284827	835	20.0	yes	both	no	no	no	
92231.85c	229.052	ENDF71x	ENDF/B-VII.1	2010	0.1	284899	843	20.0	yes	both	no	no	no	
92231.86c	229.052	ENDF71x	ENDF/B-VII.1	2010	250.0	284998	854	20.0	yes	both	no	no	no	
92231.710nc	229.052	ENDF71x	ENDF/B-VII.1	2010	293.6	284953	849	20.0	yes	both	no	no	no	
92231.711nc	229.052	ENDF71x	ENDF/B-VII.1	2010	600.0	284944	848	20.0	yes	both	no	no	no	
92231.712nc	229.052	ENDF71x	ENDF/B-VII.1	2010	900.0	284944	848	20.0	yes	both	no	no	no	
92231.713nc	229.052	ENDF71x	ENDF/B-VII.1	2010	1200.0	284827	835	20.0	yes	both	no	no	no	
92231.714nc	229.052	ENDF71x	ENDF/B-VII.1	2010	2500.0	284827	835	20.0	yes	both	no	no	no	
92231.715nc	229.052	ENDF71x	ENDF/B-VII.1	2010	0.1	284899	843	20.0	yes	both	no	no	no	
92231.716nc	229.052	ENDF71x	ENDF/B-VII.1	2010	250.0	284998	854	20.0	yes	both	no	no	no	
U-232														

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
92232.80c	230.044	ENDF71x	ENDF/B-VII.1	2010	293.6	425002	7426	20.0	yes	both	no	yes	no	
92232.81c	230.044	ENDF71x	ENDF/B-VII.1	2010	600.0	421375	7023	20.0	yes	both	no	yes	no	
92232.82c	230.044	ENDF71x	ENDF/B-VII.1	2010	900.0	419359	6799	20.0	yes	both	no	yes	no	
92232.83c	230.044	ENDF71x	ENDF/B-VII.1	2010	1200.0	417784	6624	20.0	yes	both	no	yes	no	
92232.84c	230.044	ENDF71x	ENDF/B-VII.1	2010	2500.0	412699	6059	20.0	yes	both	no	yes	no	
92232.85c	230.044	ENDF71x	ENDF/B-VII.1	2010	0.1	432652	8276	20.0	yes	both	no	yes	no	
92232.86c	230.044	ENDF71x	ENDF/B-VII.1	2010	250.0	425650	7498	20.0	yes	both	no	yes	no	
92232.70c	230.0438	endf70j	ENDF/B-VII.0	2005	293.6	198527	7422	30	yes	no	no	no	yes	
92232.71c	230.0438	endf70j	ENDF/B-VII.0	2005	600	194972	7027	30	yes	no	no	no	yes	
92232.72c	230.0438	endf70j	ENDF/B-VII.0	2005	900	192383	6739	30	yes	no	no	no	yes	
92232.73c	230.0438	endf70j	ENDF/B-VII.0	2005	1200	190860	6570	30	yes	no	no	no	yes	
92232.74c	230.0438	endf70j	ENDF/B-VII.0	2005	2500	185811	6009	30	yes	no	no	no	yes	
92232.69c	230.0438	t16_2003	LANL/T16	2003	293.6	197150	7269	30	yes	both	no	no	yes	
92232.68c	230.0438	t16_2003	LANL/T16	2003	3000	183542	5757	30	yes	both	no	no	yes	
92232.66c	230.04	endf66c	ENDF/B-VI.0	1977	293.6	32792	2786	20	no	both	no	yes	yes	
92232.65c	230.04	endf66e	ENDF/B-VI.0	1977	3000.1	29048	2318	20	no	both	no	yes	yes	
92232.60c	230.04	endf60	ENDF/B-VI.0	1977	293.6	13839	1759	20	no	both	no	no	no	
92232.49c	230.04	uresa	ENDF/B-VI.0	1977	300	21813	2820	20	no	both	no	no	yes	
92232.61c	230.04	endf6dn	ENDF/B-VI.0	1977	293.6	18734	1759	20	no	both	no	yes	no	
92232.710nc	230.044	ENDF71x	ENDF/B-VII.1	2010	293.6	425002	7426	20.0	yes	both	no	yes	no	
92232.711nc	230.044	ENDF71x	ENDF/B-VII.1	2010	600.0	421375	7023	20.0	yes	both	no	yes	no	
92232.712nc	230.044	ENDF71x	ENDF/B-VII.1	2010	900.0	419359	6799	20.0	yes	both	no	yes	no	
92232.713nc	230.044	ENDF71x	ENDF/B-VII.1	2010	1200.0	417784	6624	20.0	yes	both	no	yes	no	
92232.714nc	230.044	ENDF71x	ENDF/B-VII.1	2010	2500.0	412699	6059	20.0	yes	both	no	yes	no	
92232.715nc	230.044	ENDF71x	ENDF/B-VII.1	2010	0.1	432652	8276	20.0	yes	both	no	yes	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
92232.716nc	230.044	ENDF71x	ENDF/B-VII.1	2010	250.0	425650	7498	20.0	yes	both	no	yes	no	
U-233														
92233.80c	231.0377	ENDF71x	ENDF/B-VII.1	2011	293.6	450816	24976	30.0	yes	both	no	yes	yes	
92233.81c	231.0377	ENDF71x	ENDF/B-VII.1	2011	600.0	413061	20781	30.0	yes	both	no	yes	yes	
92233.82c	231.0377	ENDF71x	ENDF/B-VII.1	2011	900.0	391794	18418	30.0	yes	both	no	yes	yes	
92233.83c	231.0377	ENDF71x	ENDF/B-VII.1	2011	1200.0	377367	16815	30.0	yes	both	no	yes	yes	
92233.84c	231.0377	ENDF71x	ENDF/B-VII.1	2011	2500.0	347226	13466	30.0	yes	both	no	yes	yes	
92233.85c	231.0377	ENDF71x	ENDF/B-VII.1	2011	0.1	614616	43176	30.0	yes	both	no	yes	yes	
92233.86c	231.0377	ENDF71x	ENDF/B-VII.1	2011	250.0	459987	25995	30.0	yes	both	no	yes	yes	
92233.70c	231.0377	endf70j	ENDF/B-VII.0	2006	293.6	452732	25024	30	yes	no	no	yes	yes	
92233.71c	231.0377	endf70j	ENDF/B-VII.0	2006	600	414977	20829	30	yes	no	no	yes	yes	
92233.72c	231.0377	endf70j	ENDF/B-VII.0	2006	900	393710	18466	30	yes	no	no	yes	yes	
92233.73c	231.0377	endf70j	ENDF/B-VII.0	2006	1200	379283	16863	30	yes	no	no	yes	yes	
92233.74c	231.0377	endf70j	ENDF/B-VII.0	2006	2500	349190	13515	30	yes	no	no	yes	yes	
92233.69c	231.0377	t16_2003	LANL/T16	2003	293.6	441295	24290	30	yes	both	no	yes	yes	
92233.68c	231.0377	t16_2003	LANL/T16	2003	3000	323539	11206	30	yes	both	no	yes	yes	
92233.66c	231.043	endf66c	ENDF/B-VI.0	1978	293.6	62463	4821	20	yes	both	no	yes	yes	
92233.65c	231.043	endf66e	ENDF/B-VI.0	1978	3000.1	49260	3354	20	yes	both	no	yes	yes	
92233.60c	231.043	endf60	ENDF/B-VI.0	1978	293.6	32226	3223	20	yes	both	no	no	no	16
92233.49c	231.043	uresa	ENDF/B-VI.0	1978	300	47100	4601	20	yes	both	no	no	yes	
92233.61c	231.043	endf6dn	ENDF/B-VI.0	1978	293.6	37218	3223	20	yes	both	no	yes	no	
92233.50c	231.043	rmccs	ENDF/B-V.0	1978	293.6	18815	2293	20	no	both	no	no	no	
92233.42c	231.0377	endl92	LLNL	<1992	300	29521	2163	30	yes	both	no	no	no	
92233.710nc	231.0377	ENDF71x	ENDF/B-VII.1	2011	293.6	450816	24976	30.0	yes	both	no	yes	yes	
92233.711nc	231.0377	ENDF71x	ENDF/B-VII.1	2011	600.0	413061	20781	30.0	yes	both	no	yes	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
92233.712nc	231.0377	ENDF71x	ENDF/B-VII.1	2011	900.0	391794	18418	30.0	yes	both	no	yes	yes	
92233.713nc	231.0377	ENDF71x	ENDF/B-VII.1	2011	1200.0	377367	16815	30.0	yes	both	no	yes	yes	
92233.714nc	231.0377	ENDF71x	ENDF/B-VII.1	2011	2500.0	347226	13466	30.0	yes	both	no	yes	yes	
92233.715nc	231.0377	ENDF71x	ENDF/B-VII.1	2011	0.1	614616	43176	30.0	yes	both	no	yes	yes	
92233.716nc	231.0377	ENDF71x	ENDF/B-VII.1	2011	250.0	459987	25995	30.0	yes	both	no	yes	yes	
U-234														
92234.80c	232.0304	ENDF71x	ENDF/B-VII.1	2006	293.6	423952	25393	30.0	yes	both	no	yes	yes	
92234.81c	232.0304	ENDF71x	ENDF/B-VII.1	2006	600.0	409624	23801	30.0	yes	both	no	yes	yes	
92234.82c	232.0304	ENDF71x	ENDF/B-VII.1	2006	900.0	400912	22833	30.0	yes	both	no	yes	yes	
92234.83c	232.0304	ENDF71x	ENDF/B-VII.1	2006	1200.0	393658	22027	30.0	yes	both	no	yes	yes	
92234.84c	232.0304	ENDF71x	ENDF/B-VII.1	2006	2500.0	375937	20058	30.0	yes	both	no	yes	yes	
92234.85c	232.0304	ENDF71x	ENDF/B-VII.1	2006	0.1	557557	40238	30.0	yes	both	no	yes	yes	
92234.86c	232.0304	ENDF71x	ENDF/B-VII.1	2006	250.0	427480	25785	30.0	yes	both	no	yes	yes	
92234.70c	232.0304	endf70j	ENDF/B-VII.0	2006	293.6	423459	25480	30	yes	no	no	yes	yes	
92234.71c	232.0304	endf70j	ENDF/B-VII.0	2006	600	409131	23888	30	yes	no	no	yes	yes	
92234.72c	232.0304	endf70j	ENDF/B-VII.0	2006	900	400423	22920	30	yes	no	no	yes	yes	
92234.73c	232.0304	endf70j	ENDF/B-VII.0	2006	1200	393165	22114	30	yes	no	no	yes	yes	
92234.74c	232.0304	endf70j	ENDF/B-VII.0	2006	2500	375444	20145	30	yes	no	no	yes	yes	
92234.69c	232.0304	t16_2003	LANL/T16	2003	293.6	344651	23228	30	yes	both	no	yes	yes	
92234.68c	232.0304	t16_2003	LANL/T16	2003	3000	286070	16719	30	yes	both	no	yes	yes	
92234.66c	232.03	endf66c	ENDF/B-VI.0	1978	293.6	196273	22827	20	no	both	no	yes	yes	
92234.65c	232.03	endf66e	ENDF/B-VI.0	1978	3000.1	144201	16318	20	no	both	no	yes	yes	
92234.60c	232.03	endf60	ENDF/B-VI.0	1978	293.6	77059	10660	17.5	no	both	no	no	no	
92234.49c	232.03	uresa	ENDF/B-VI.0	1978	300	161296	22539	20	no	both	no	no	yes	
92234.61c	232.03	endf6dn	ENDF/B-VI.0	1978	293.6	82047	10660	17.5	no	both	no	yes	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
92234.51c	232.03	rmccs	ENDF/B-V.0	1978	293.6	6426	672	20	no	tot	no	no	no	
92234.50c	232.03	endf5p	ENDF/B-V.0	1978	293.6	89433	12430	20	no	tot	no	no	no	
92234.42c	232.0304	endl92	LLNL	<1992	300	13677	149	30	yes	both	no	no	no	
92234.710nc	232.0304	ENDF71x	ENDF/B-VII.1	2006	293.6	423952	25393	30.0	yes	both	no	yes	yes	
92234.711nc	232.0304	ENDF71x	ENDF/B-VII.1	2006	600.0	409624	23801	30.0	yes	both	no	yes	yes	
92234.712nc	232.0304	ENDF71x	ENDF/B-VII.1	2006	900.0	400912	22833	30.0	yes	both	no	yes	yes	
92234.713nc	232.0304	ENDF71x	ENDF/B-VII.1	2006	1200.0	393658	22027	30.0	yes	both	no	yes	yes	
92234.714nc	232.0304	ENDF71x	ENDF/B-VII.1	2006	2500.0	375937	20058	30.0	yes	both	no	yes	yes	
92234.715nc	232.0304	ENDF71x	ENDF/B-VII.1	2006	0.1	557557	40238	30.0	yes	both	no	yes	yes	
92234.716nc	232.0304	ENDF71x	ENDF/B-VII.1	2006	250.0	427480	25785	30.0	yes	both	no	yes	yes	
U-235														
92235.80c	233.0248	ENDF71x	ENDF/B-VII.1	2006	293.6	837481	76518	20.0	yes	both	no	yes	yes	
92235.81c	233.0248	ENDF71x	ENDF/B-VII.1	2006	600.0	694543	60636	20.0	yes	both	no	yes	yes	
92235.82c	233.0248	ENDF71x	ENDF/B-VII.1	2006	900.0	634234	53935	20.0	yes	both	no	yes	yes	
92235.83c	233.0248	ENDF71x	ENDF/B-VII.1	2006	1200.0	599800	50109	20.0	yes	both	no	yes	yes	
92235.84c	233.0248	ENDF71x	ENDF/B-VII.1	2006	2500.0	539473	43406	20.0	yes	both	no	yes	yes	
92235.85c	233.0248	ENDF71x	ENDF/B-VII.1	2006	0.1	2278165	236594	20.0	yes	both	no	yes	yes	
92235.86c	233.0248	ENDF71x	ENDF/B-VII.1	2006	250.0	876775	80884	20.0	yes	both	no	yes	yes	
92235.70c	233.0248	endf70j	ENDF/B-VII.0	2006	293.6	832644	76525	20	yes	both	no	yes	yes	
92235.71c	233.0248	endf70j	ENDF/B-VII.0	2006	600	689688	60641	20	yes	both	no	yes	yes	
92235.72c	233.0248	endf70j	ENDF/B-VII.0	2006	900	629412	53941	20	yes	both	no	yes	yes	
92235.73c	233.0248	endf70j	ENDF/B-VII.0	2006	1200	594954	50115	20	yes	both	no	yes	yes	
92235.74c	233.0248	endf70j	ENDF/B-VII.0	2006	2500	534660	43413	20	yes	both	no	yes	yes	
92235.69c	233.025	t16_2003	LANL/T16	2003	293.6	726320	67380	20	yes	both	no	yes	yes	
92235.67c	233.025	t16_2003	LANL/T16	2003	77	1119233	111037	20	yes	both	no	yes	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
92235.68c	233.025	t16_2003	LANL/T16	2003	3000	337079	24131	20	yes	both	no	yes	yes	
92235.66c	233.025	endf66c	ENDF/B-VI.5	1997	293.6	722105	67409	20	yes	both	no	yes	yes	
92235.64c	233.025	endf66d	ENDF/B-VI.5	1997	77	1115810	111154	20	yes	both	no	yes	yes	
92235.65c	233.025	endf66e	ENDF/B-VI.5	1997	3000.1	332639	24135	20	yes	both	no	yes	yes	
92235.60c	233.025	endf60	ENDF/B-VI.2	1993	293.6	289975	28110	20	yes	both	no	no	no	
92235.49c	233.025	uresa	ENDF/B-VI.4	1996	300	647347	72649	20	yes	both	no	no	yes	
92235.61c	233.025	endf6dn	ENDF/B-VI.2	1993	293.6	294963	28110	20	yes	both	no	yes	no	
92235.50c	233.025	rmccs	ENDF/B-V.0	1977	293.6	60489	5725	20	yes	both	no	no	no	
92235.42c	233.0248	endl92	LLNL	<1992	300	72790	5734	30	yes	both	no	no	no	
92235.11c	233.025	endf62mt	ENDF/B-VI.2	1993	77	696398	78912	20	yes	both	no	no	no	
92235.12c	233.025	endf62mt	ENDF/B-VI.2	1993	400	411854	43344	20	yes	both	no	no	no	
92235.13c	233.025	endf62mt	ENDF/B-VI.2	1993	500	379726	39328	20	yes	both	no	no	no	
92235.14c	233.025	endf62mt	ENDF/B-VI.2	1993	600	353678	36072	20	yes	both	no	no	no	
92235.15c	233.025	endf62mt	ENDF/B-VI.2	1993	800	316622	31440	20	yes	both	no	no	no	
92235.16c	233.025	endf62mt	ENDF/B-VI.2	1993	900	300278	29397	20	yes	both	no	no	no	
92235.17c	233.025	endf62mt	ENDF/B-VI.2	1993	1200	269062	25495	20	yes	both	no	no	no	
92235.52c	233.025	endf5mt	ENDF/B-V.0	1977	587.2	65286	6320	20	yes	both	no	no	no	1
92235.53c	233.025	endf5mt	ENDF/B-V.0	1977	587.2	36120	2685	20	yes	both	no	no	no	1
92235.54c	233.025	endf5mt	ENDF/B-V.0	1977	880.8	36008	2671	20	yes	both	no	no	no	1
92235.710nc	233.0248	ENDF71x	ENDF/B-VII.1	2006	293.6	837481	76518	20.0	yes	both	no	yes	yes	
92235.711nc	233.0248	ENDF71x	ENDF/B-VII.1	2006	600.0	694543	60636	20.0	yes	both	no	yes	yes	
92235.712nc	233.0248	ENDF71x	ENDF/B-VII.1	2006	900.0	634234	53935	20.0	yes	both	no	yes	yes	
92235.713nc	233.0248	ENDF71x	ENDF/B-VII.1	2006	1200.0	599800	50109	20.0	yes	both	no	yes	yes	
92235.714nc	233.0248	ENDF71x	ENDF/B-VII.1	2006	2500.0	539473	43406	20.0	yes	both	no	yes	yes	
92235.715nc	233.0248	ENDF71x	ENDF/B-VII.1	2006	0.1	2278165	236594	20.0	yes	both	no	yes	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
92235.716nc	233.0248	ENDF71x	ENDF/B-VII.1	2006	250.0	876775	80884	20.0	yes	both	no	yes	yes	
U-236														
92236.80c	234.0178	ENDF71x	ENDF/B-VII.1	2005	293.6	356780	24056	30.0	yes	both	no	yes	yes	
92236.81c	234.0178	ENDF71x	ENDF/B-VII.1	2005	600.0	342326	22450	30.0	yes	both	no	yes	yes	
92236.82c	234.0178	ENDF71x	ENDF/B-VII.1	2005	900.0	334253	21553	30.0	yes	both	no	yes	yes	
92236.83c	234.0178	ENDF71x	ENDF/B-VII.1	2005	1200.0	326441	20685	30.0	yes	both	no	yes	yes	
92236.84c	234.0178	ENDF71x	ENDF/B-VII.1	2005	2500.0	310421	18905	30.0	yes	both	no	yes	yes	
92236.85c	234.0178	ENDF71x	ENDF/B-VII.1	2005	0.1	471845	36841	30.0	yes	both	no	yes	yes	
92236.86c	234.0178	ENDF71x	ENDF/B-VII.1	2005	250.0	358841	24285	30.0	yes	both	no	yes	yes	
92236.70c	234.0178	endf70j	ENDF/B-VII.0	2005	293.6	358107	24118	30	yes	no	no	yes	yes	
92236.71c	234.0178	endf70j	ENDF/B-VII.0	2005	600	343652	22512	30	yes	no	no	yes	yes	
92236.72c	234.0178	endf70j	ENDF/B-VII.0	2005	900	335579	21615	30	yes	no	no	yes	yes	
92236.73c	234.0178	endf70j	ENDF/B-VII.0	2005	1200	327767	20747	30	yes	no	no	yes	yes	
92236.74c	234.0178	endf70j	ENDF/B-VII.0	2005	2500	311748	18967	30	yes	no	no	yes	yes	
92236.69c	234.0178	t16_2003	LANL/T16	2003	293.6	328212	21335	30	yes	both	no	yes	yes	
92236.68c	234.0178	t16_2003	LANL/T16	2003	3000	276138	15549	30	yes	both	no	yes	yes	
92236.66c	234.018	endf66c	ENDF/B-VI.0	1989	293.6	199786	21120	20	no	both	no	yes	yes	
92236.65c	234.018	endf66e	ENDF/B-VI.0	1989	3000.1	153474	15331	20	no	both	no	yes	yes	
92236.60c	234.018	endf60	ENDF/B-VI.0	1989	293.6	82819	10454	20	no	both	no	no	no	
92236.49c	234.018	uresa	ENDF/B-VI.0	1989	300	159074	20865	20	no	both	no	no	yes	
92236.61c	234.018	endf6dn	ENDF/B-VI.0	1989	293.6	87807	10454	20	no	both	no	yes	no	
92236.51c	234.018	rmccs	ENDF/B-V.0	1978	293.6	7302	800	20	no	tot	no	no	no	
92236.50c	234.018	endf5p	ENDF/B-V.0	1978	293.6	138715	19473	20	no	tot	no	no	no	
92236.42c	234.0178	endl92	LLNL	<1992	300	14595	311	30	yes	both	no	no	no	
92236.710nc	234.0178	ENDF71x	ENDF/B-VII.1	2005	293.6	356780	24056	30.0	yes	both	no	yes	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
92236.711nc	234.0178	ENDF71x	ENDF/B-VII.1	2005	600.0	342326	22450	30.0	yes	both	no	yes	yes	
92236.712nc	234.0178	ENDF71x	ENDF/B-VII.1	2005	900.0	334253	21553	30.0	yes	both	no	yes	yes	
92236.713nc	234.0178	ENDF71x	ENDF/B-VII.1	2005	1200.0	326441	20685	30.0	yes	both	no	yes	yes	
92236.714nc	234.0178	ENDF71x	ENDF/B-VII.1	2005	2500.0	310421	18905	30.0	yes	both	no	yes	yes	
92236.715nc	234.0178	ENDF71x	ENDF/B-VII.1	2005	0.1	471845	36841	30.0	yes	both	no	yes	yes	
92236.716nc	234.0178	ENDF71x	ENDF/B-VII.1	2005	250.0	358841	24285	30.0	yes	both	no	yes	yes	
U-237														
92237.80c	235.0124	ENDF71x	ENDF/B-VII.1	2010	293.6	198660	11809	30.0	yes	both	no	yes	yes	
92237.81c	235.0124	ENDF71x	ENDF/B-VII.1	2010	600.0	191703	11036	30.0	yes	both	no	yes	yes	
92237.82c	235.0124	ENDF71x	ENDF/B-VII.1	2010	900.0	187950	10619	30.0	yes	both	no	yes	yes	
92237.83c	235.0124	ENDF71x	ENDF/B-VII.1	2010	1200.0	185799	10380	30.0	yes	both	no	yes	yes	
92237.84c	235.0124	ENDF71x	ENDF/B-VII.1	2010	2500.0	177195	9424	30.0	yes	both	no	yes	yes	
92237.85c	235.0124	ENDF71x	ENDF/B-VII.1	2010	0.1	229791	15268	30.0	yes	both	no	yes	yes	
92237.86c	235.0124	ENDF71x	ENDF/B-VII.1	2010	250.0	199911	11948	30.0	yes	both	no	yes	yes	
92237.70c	235.0124	endf70j	ENDF/B-VII.0	2006	293.6	168048	8498	30	yes	no	no	yes	yes	
92237.71c	235.0124	endf70j	ENDF/B-VII.0	2006	600	164539	8108	30	yes	no	no	yes	yes	
92237.72c	235.0124	endf70j	ENDF/B-VII.0	2006	900	162118	7839	30	yes	no	no	yes	yes	
92237.73c	235.0124	endf70j	ENDF/B-VII.0	2006	1200	160569	7667	30	yes	no	no	yes	yes	
92237.74c	235.0124	endf70j	ENDF/B-VII.0	2006	2500	154945	7042	30	yes	no	no	yes	yes	
92237.69c	235.0124	t16_2003	LANL/T16	2000	293.6	135303	8016	30	yes	both	no	yes	yes	
92237.68c	235.0124	t16_2003	LANL/T16	2000	3000	120768	6401	30	yes	both	no	yes	yes	
92237.66c	235.012	endf66c	ENDF/B-VI.2	1976	293.6	87188	7977	20	yes	both	no	yes	yes	
92237.65c	235.012	endf66e	ENDF/B-VI.2	1976	3000.1	72824	6381	20	yes	both	no	yes	yes	
92237.51c	235.012	rmccs	ENDF/B-V.0	1976	293.6	10317	527	20	yes	tot	no	no	no	
92237.50c	235.012	endf5p	ENDF/B-V.0	1976	293.6	32445	3293	20	yes	tot	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
92237.42c	235.0123	endl92	LLNL	<1992	300	13465	210	30	yes	both	no	no	no	
92237.710nc	235.0124	ENDF71x	ENDF/B-VII.1	2010	293.6	198660	11809	30.0	yes	both	no	yes	yes	
92237.711nc	235.0124	ENDF71x	ENDF/B-VII.1	2010	600.0	191703	11036	30.0	yes	both	no	yes	yes	
92237.712nc	235.0124	ENDF71x	ENDF/B-VII.1	2010	900.0	187950	10619	30.0	yes	both	no	yes	yes	
92237.713nc	235.0124	ENDF71x	ENDF/B-VII.1	2010	1200.0	185799	10380	30.0	yes	both	no	yes	yes	
92237.714nc	235.0124	ENDF71x	ENDF/B-VII.1	2010	2500.0	177195	9424	30.0	yes	both	no	yes	yes	
92237.715nc	235.0124	ENDF71x	ENDF/B-VII.1	2010	0.1	229791	15268	30.0	yes	both	no	yes	yes	
92237.716nc	235.0124	ENDF71x	ENDF/B-VII.1	2010	250.0	199911	11948	30.0	yes	both	no	yes	yes	
U-238														
92238.80c	236.0058	ENDF71x	ENDF/B-VII.1	2006	293.6	1637220	157744	30.0	yes	both	no	yes	yes	
92238.81c	236.0058	ENDF71x	ENDF/B-VII.1	2006	600.0	1423101	133953	30.0	yes	both	no	yes	yes	
92238.82c	236.0058	ENDF71x	ENDF/B-VII.1	2006	900.0	1320654	122570	30.0	yes	both	no	yes	yes	
92238.83c	236.0058	ENDF71x	ENDF/B-VII.1	2006	1200.0	1255674	115350	30.0	yes	both	no	yes	yes	
92238.84c	236.0058	ENDF71x	ENDF/B-VII.1	2006	2500.0	1114104	99620	30.0	yes	both	no	yes	yes	
92238.85c	236.0058	ENDF71x	ENDF/B-VII.1	2006	0.1	3665100	383064	30.0	yes	both	no	yes	yes	
92238.86c	236.0058	ENDF71x	ENDF/B-VII.1	2006	250.0	1690077	163617	30.0	yes	both	no	yes	yes	
92238.70c	236.0058	endf70j	ENDF/B-VII.0	2006	293.6	1637757	157754	30	yes	no	no	yes	yes	
92238.71c	236.0058	endf70j	ENDF/B-VII.0	2006	600	1423644	133964	30	yes	no	no	yes	yes	
92238.72c	236.0058	endf70j	ENDF/B-VII.0	2006	900	1321197	122581	30	yes	no	no	yes	yes	
92238.73c	236.0058	endf70j	ENDF/B-VII.0	2006	1200	1256218	115361	30	yes	no	no	yes	yes	
92238.74c	236.0058	endf70j	ENDF/B-VII.0	2006	2500	1114647	99631	30	yes	no	no	yes	yes	
92238.69c	236.0058	t16_2003	LANL/T16	2003	293.6	874492	78709	30	yes	both	no	yes	yes	
92238.67c	236.0058	t16_2003	LANL/T16	2003	77	1099087	103664	30	yes	both	no	yes	yes	
92238.68c	236.0058	t16_2003	LANL/T16	2003	3000	547675	42396	30	yes	both	no	yes	yes	
92238.66c	236.006	endf66c	ENDF/B-VI.5	1997	293.6	751905	78647	20	yes	both	no	yes	yes	

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Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
92238.64c	236.006	endf66d	ENDF/B-VI.5	1997	77	976500	103602	20	yes	both	no	yes	yes	
92238.65c	236.006	endf66e	ENDF/B-VI.5	1997	3000.1	425088	42334	20	yes	both	no	yes	yes	
92238.60c	236.006	endf60	ENDF/B-VI.2	1993	293.6	206322	22600	20	yes	both	no	no	no	
92238.48c	236.006	uresa	ENDF/B-VI.2	1993	300	705623	85021	20	no	both	no	no	yes	15
92238.61c	236.006	endf6dn	ENDF/B-VI.2	1993	293.6	211310	22600	20	yes	both	no	yes	no	
92238.50c	236.006	rmccs	ENDF/B-V.0	1979	293.6	88998	9285	20	yes	both	no	no	no	
92238.21c	236.006	100xs	LANL/T:X	1993	300	279245	30911	100	yes	both	no	no	no	3
92238.42c	236.0058	endl92	LLNL	<1992	300	107739	7477	30	yes	both	no	no	no	
92238.11c	236.006	endf62mt	ENDF/B-VI.2	1993	77	621385	74481	20	yes	both	no	no	no	
92238.12c	236.006	endf62mt	ENDF/B-VI.2	1993	400	456593	53882	20	yes	both	no	no	no	
92238.13c	236.006	endf62mt	ENDF/B-VI.2	1993	500	433681	51018	20	yes	both	no	no	no	
92238.14c	236.006	endf62mt	ENDF/B-VI.2	1993	600	414185	48581	20	yes	both	no	no	no	
92238.15c	236.006	endf62mt	ENDF/B-VI.2	1993	800	386305	45096	20	yes	both	no	no	no	
92238.16c	236.006	endf62mt	ENDF/B-VI.2	1993	900	372625	43386	20	yes	both	no	no	no	
92238.17c	236.006	endf62mt	ENDF/B-VI.2	1993	1200	348137	40325	20	yes	both	no	no	no	
92238.52c	236.006	endf5mt	ENDF/B-V.0	1979	587.2	123199	8454	20	yes	both	no	no	no	1
92238.53c	236.006	endf5mt	ENDF/B-V.0	1979	587.2	160107	17876	20	yes	both	no	no	no	1
92238.54c	236.006	endf5mt	ENDF/B-V.0	1979	880.8	160971	17984	20	yes	both	no	no	no	1
92238.710nc	236.0058	ENDF71x	ENDF/B-VII.1	2006	293.6	1637220	157744	30.0	yes	both	no	yes	yes	
92238.711nc	236.0058	ENDF71x	ENDF/B-VII.1	2006	600.0	1423101	133953	30.0	yes	both	no	yes	yes	
92238.712nc	236.0058	ENDF71x	ENDF/B-VII.1	2006	900.0	1320654	122570	30.0	yes	both	no	yes	yes	
92238.713nc	236.0058	ENDF71x	ENDF/B-VII.1	2006	1200.0	1255674	115350	30.0	yes	both	no	yes	yes	
92238.714nc	236.0058	ENDF71x	ENDF/B-VII.1	2006	2500.0	1114104	99620	30.0	yes	both	no	yes	yes	
92238.715nc	236.0058	ENDF71x	ENDF/B-VII.1	2006	0.1	3665100	383064	30.0	yes	both	no	yes	yes	
92238.716nc	236.0058	ENDF71x	ENDF/B-VII.1	2006	250.0	1690077	163617	30.0	yes	both	no	yes	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
U-239														
92239.80c	237.0007	ENDF71x	ENDF/B-VII.1	2011	293.6	247799	9320	30.0	yes	both	no	yes	yes	
92239.81c	237.0007	ENDF71x	ENDF/B-VII.1	2011	600.0	242147	8692	30.0	yes	both	no	yes	yes	
92239.82c	237.0007	ENDF71x	ENDF/B-VII.1	2011	900.0	236999	8120	30.0	yes	both	no	yes	yes	
92239.83c	237.0007	ENDF71x	ENDF/B-VII.1	2011	1200.0	234272	7817	30.0	yes	both	no	yes	yes	
92239.84c	237.0007	ENDF71x	ENDF/B-VII.1	2011	2500.0	225218	6811	30.0	yes	both	no	yes	yes	
92239.85c	237.0007	ENDF71x	ENDF/B-VII.1	2011	0.1	262748	10981	30.0	yes	both	no	yes	yes	
92239.86c	237.0007	ENDF71x	ENDF/B-VII.1	2011	250.0	248924	9445	30.0	yes	both	no	yes	yes	
92239.70c	237.0007	endf70j	ENDF/B-VII.0	2006	293.6	238312	8498	30	yes	no	no	yes	yes	
92239.71c	237.0007	endf70j	ENDF/B-VII.0	2006	600	235226	8155	30	yes	no	no	yes	yes	
92239.72c	237.0007	endf70j	ENDF/B-VII.0	2006	900	232948	7902	30	yes	no	no	yes	yes	
92239.73c	237.0007	endf70j	ENDF/B-VII.0	2006	1200	231499	7741	30	yes	no	no	yes	yes	
92239.74c	237.0007	endf70j	ENDF/B-VII.0	2006	2500	226136	7145	30	yes	no	no	yes	yes	
92239.69c	237.0007	t16_2003	LANL/T16	2000	293.6	125557	7956	30	yes	both	no	yes	yes	
92239.68c	237.0007	t16_2003	LANL/T16	2000	3000	111013	6340	30	yes	both	no	yes	yes	
92239.35c	237.0007	rmccsa	LLNL	<1985	0	9809	394	20	yes	pr	no	no	no	
92239.42c	237.0007	endl92	LLNL	<1992	300	14336	205	30	yes	both	no	no	no	
92239.710nc	237.0007	ENDF71x	ENDF/B-VII.1	2011	293.6	247799	9320	30.0	yes	both	no	yes	yes	
92239.711nc	237.0007	ENDF71x	ENDF/B-VII.1	2011	600.0	242147	8692	30.0	yes	both	no	yes	yes	
92239.712nc	237.0007	ENDF71x	ENDF/B-VII.1	2011	900.0	236999	8120	30.0	yes	both	no	yes	yes	
92239.713nc	237.0007	ENDF71x	ENDF/B-VII.1	2011	1200.0	234272	7817	30.0	yes	both	no	yes	yes	
92239.714nc	237.0007	ENDF71x	ENDF/B-VII.1	2011	2500.0	225218	6811	30.0	yes	both	no	yes	yes	
92239.715nc	237.0007	ENDF71x	ENDF/B-VII.1	2011	0.1	262748	10981	30.0	yes	both	no	yes	yes	
92239.716nc	237.0007	ENDF71x	ENDF/B-VII.1	2011	250.0	248924	9445	30.0	yes	both	no	yes	yes	
U-240														

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
92240.80c	237.9944	ENDF71x	ENDF/B-VII.1	2005	293.6	297010	16842	30.0	yes	both	no	yes	yes	
92240.81c	237.9944	ENDF71x	ENDF/B-VII.1	2005	600.0	286489	15673	30.0	yes	both	no	yes	yes	
92240.82c	237.9944	ENDF71x	ENDF/B-VII.1	2005	900.0	281980	15172	30.0	yes	both	no	yes	yes	
92240.83c	237.9944	ENDF71x	ENDF/B-VII.1	2005	1200.0	278776	14816	30.0	yes	both	no	yes	yes	
92240.84c	237.9944	ENDF71x	ENDF/B-VII.1	2005	2500.0	267283	13539	30.0	yes	both	no	yes	yes	
92240.85c	237.9944	ENDF71x	ENDF/B-VII.1	2005	0.1	371872	25160	30.0	yes	both	no	yes	yes	
92240.86c	237.9944	ENDF71x	ENDF/B-VII.1	2005	250.0	298630	17022	30.0	yes	both	no	yes	yes	
92240.70c	237.9944	endf70j	ENDF/B-VII.0	2005	293.6	296586	16896	30	yes	no	no	yes	yes	
92240.71c	237.9944	endf70j	ENDF/B-VII.0	2005	600	286064	15727	30	yes	no	no	yes	yes	
92240.72c	237.9944	endf70j	ENDF/B-VII.0	2005	900	281555	15226	30	yes	no	no	yes	yes	
92240.73c	237.9944	endf70j	ENDF/B-VII.0	2005	1200	278351	14870	30	yes	no	no	yes	yes	
92240.74c	237.9944	endf70j	ENDF/B-VII.0	2005	2500	266859	13593	30	yes	no	no	yes	yes	
92240.69c	237.9944	t16_2003	LANL/T16	2003	293.6	276968	15254	30	yes	both	no	yes	yes	
92240.68c	237.9944	t16_2003	LANL/T16	2003	3000	243398	11524	30	yes	both	no	yes	yes	
92240.42c	237.9944	endl92	LLNL	<1992	300	14000	128	30	yes	both	no	no	no	
92240.710nc	237.9944	ENDF71x	ENDF/B-VII.1	2005	293.6	297010	16842	30.0	yes	both	no	yes	yes	
92240.711nc	237.9944	ENDF71x	ENDF/B-VII.1	2005	600.0	286489	15673	30.0	yes	both	no	yes	yes	
92240.712nc	237.9944	ENDF71x	ENDF/B-VII.1	2005	900.0	281980	15172	30.0	yes	both	no	yes	yes	
92240.713nc	237.9944	ENDF71x	ENDF/B-VII.1	2005	1200.0	278776	14816	30.0	yes	both	no	yes	yes	
92240.714nc	237.9944	ENDF71x	ENDF/B-VII.1	2005	2500.0	267283	13539	30.0	yes	both	no	yes	yes	
92240.715nc	237.9944	ENDF71x	ENDF/B-VII.1	2005	0.1	371872	25160	30.0	yes	both	no	yes	yes	
92240.716nc	237.9944	ENDF71x	ENDF/B-VII.1	2005	250.0	298630	17022	30.0	yes	both	no	yes	yes	
U-241														
92241.80c	238.9895	ENDF71x	ENDF/B-VII.1	2005	293.6	227585	7927	30.0	yes	both	no	yes	yes	
92241.81c	238.9895	ENDF71x	ENDF/B-VII.1	2005	600.0	225225	7691	30.0	yes	both	no	yes	yes	

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Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
92241.82c	238.9895	ENDF71x	ENDF/B-VII.1	2005	900.0	221175	7286	30.0	yes	both	no	yes	yes	
92241.83c	238.9895	ENDF71x	ENDF/B-VII.1	2005	1200.0	219475	7116	30.0	yes	both	no	yes	yes	
92241.84c	238.9895	ENDF71x	ENDF/B-VII.1	2005	2500.0	215485	6717	30.0	yes	both	no	yes	yes	
92241.85c	238.9895	ENDF71x	ENDF/B-VII.1	2005	0.1	249845	10153	30.0	yes	both	no	yes	yes	
92241.86c	238.9895	ENDF71x	ENDF/B-VII.1	2005	250.0	228575	8026	30.0	yes	both	no	yes	yes	
92241.70c	238.9895	endf70j	ENDF/B-VII.0	2005	293.6	226675	8002	30	yes	no	no	yes	yes	
92241.71c	238.9895	endf70j	ENDF/B-VII.0	2005	600	224315	7766	30	yes	no	no	yes	yes	
92241.72c	238.9895	endf70j	ENDF/B-VII.0	2005	900	220265	7361	30	yes	no	no	yes	yes	
92241.73c	238.9895	endf70j	ENDF/B-VII.0	2005	1200	218565	7191	30	yes	no	no	yes	yes	
92241.74c	238.9895	endf70j	ENDF/B-VII.0	2005	2500	214575	6792	30	yes	no	no	yes	yes	
92241.69c	238.989	t16_2003	LANL/T16	2000	293.6	132260	7941	30	yes	both	no	yes	yes	
92241.68c	238.989	t16_2003	LANL/T16	2000	3000	117572	6309	30	yes	both	no	yes	yes	
92241.710nc	238.9895	ENDF71x	ENDF/B-VII.1	2005	293.6	227585	7927	30.0	yes	both	no	yes	yes	
92241.711nc	238.9895	ENDF71x	ENDF/B-VII.1	2005	600.0	225225	7691	30.0	yes	both	no	yes	yes	
92241.712nc	238.9895	ENDF71x	ENDF/B-VII.1	2005	900.0	221175	7286	30.0	yes	both	no	yes	yes	
92241.713nc	238.9895	ENDF71x	ENDF/B-VII.1	2005	1200.0	219475	7116	30.0	yes	both	no	yes	yes	
92241.714nc	238.9895	ENDF71x	ENDF/B-VII.1	2005	2500.0	215485	6717	30.0	yes	both	no	yes	yes	
92241.715nc	238.9895	ENDF71x	ENDF/B-VII.1	2005	0.1	249845	10153	30.0	yes	both	no	yes	yes	
92241.716nc	238.9895	ENDF71x	ENDF/B-VII.1	2005	250.0	228575	8026	30.0	yes	both	no	yes	yes	
				Z = 93, neptunium										
Np-234														
93234.80c	232.032	ENDF71x	ENDF/B-VII.1	2010	293.6	229813	726	20.0	yes	both	no	no	no	
93234.81c	232.032	ENDF71x	ENDF/B-VII.1	2010	600.0	229768	721	20.0	yes	both	no	no	no	
93234.82c	232.032	ENDF71x	ENDF/B-VII.1	2010	900.0	229759	720	20.0	yes	both	no	no	no	
93234.83c	232.032	ENDF71x	ENDF/B-VII.1	2010	1200.0	229795	724	20.0	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
93234.84c	232.032	ENDF71x	ENDF/B-VII.1	2010	2500.0	229714	715	20.0	yes	both	no	no	no	
93234.85c	232.032	ENDF71x	ENDF/B-VII.1	2010	0.1	229822	727	20.0	yes	both	no	no	no	
93234.86c	232.032	ENDF71x	ENDF/B-VII.1	2010	250.0	229786	723	20.0	yes	both	no	no	no	
93234.710nc	232.032	ENDF71x	ENDF/B-VII.1	2010	293.6	229813	726	20.0	yes	both	no	no	no	
93234.711nc	232.032	ENDF71x	ENDF/B-VII.1	2010	600.0	229768	721	20.0	yes	both	no	no	no	
93234.712nc	232.032	ENDF71x	ENDF/B-VII.1	2010	900.0	229759	720	20.0	yes	both	no	no	no	
93234.713nc	232.032	ENDF71x	ENDF/B-VII.1	2010	1200.0	229795	724	20.0	yes	both	no	no	no	
93234.714nc	232.032	ENDF71x	ENDF/B-VII.1	2010	2500.0	229714	715	20.0	yes	both	no	no	no	
93234.715nc	232.032	ENDF71x	ENDF/B-VII.1	2010	0.1	229822	727	20.0	yes	both	no	no	no	
93234.716nc	232.032	ENDF71x	ENDF/B-VII.1	2010	250.0	229786	723	20.0	yes	both	no	no	no	
Np-235														
93235.80c	233.025	ENDF71x	ENDF/B-VII.1	2011	293.6	228412	838	20.0	yes	both	no	no	no	
93235.81c	233.025	ENDF71x	ENDF/B-VII.1	2011	600.0	228502	848	20.0	yes	both	no	no	no	
93235.82c	233.025	ENDF71x	ENDF/B-VII.1	2011	900.0	228241	819	20.0	yes	both	no	no	no	
93235.83c	233.025	ENDF71x	ENDF/B-VII.1	2011	1200.0	228322	828	20.0	yes	both	no	no	no	
93235.84c	233.025	ENDF71x	ENDF/B-VII.1	2011	2500.0	228358	832	20.0	yes	both	no	no	no	
93235.85c	233.025	ENDF71x	ENDF/B-VII.1	2011	0.1	228385	835	20.0	yes	both	no	no	no	
93235.86c	233.025	ENDF71x	ENDF/B-VII.1	2011	250.0	228349	831	20.0	yes	both	no	no	no	
93235.70c	233.025	endf70j	ENDF/B-VII.0	1995	293.6	28702	1075	20	no	no	no	no	no	
93235.71c	233.025	endf70j	ENDF/B-VII.0	1995	600	28558	1057	20	no	no	no	no	no	
93235.72c	233.025	endf70j	ENDF/B-VII.0	1995	900	28646	1068	20	no	no	no	no	no	
93235.73c	233.025	endf70j	ENDF/B-VII.0	1995	1200	28646	1068	20	no	no	no	no	no	
93235.74c	233.025	endf70j	ENDF/B-VII.0	1995	2500	28486	1048	20	no	no	no	no	no	
93235.42c	233.0249	endl92	LLNL	<1992	300	17717	660	30	yes	both	no	no	no	
93235.710nc	233.025	ENDF71x	ENDF/B-VII.1	2011	293.6	228412	838	20.0	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
93235.711nc	233.025	ENDF71x	ENDF/B-VII.1	2011	600.0	228502	848	20.0	yes	both	no	no	no	
93235.712nc	233.025	ENDF71x	ENDF/B-VII.1	2011	900.0	228241	819	20.0	yes	both	no	no	no	
93235.713nc	233.025	ENDF71x	ENDF/B-VII.1	2011	1200.0	228322	828	20.0	yes	both	no	no	no	
93235.714nc	233.025	ENDF71x	ENDF/B-VII.1	2011	2500.0	228358	832	20.0	yes	both	no	no	no	
93235.715nc	233.025	ENDF71x	ENDF/B-VII.1	2011	0.1	228385	835	20.0	yes	both	no	no	no	
93235.716nc	233.025	ENDF71x	ENDF/B-VII.1	2011	250.0	228349	831	20.0	yes	both	no	no	no	
Np-236														
93236.80c	234.019	ENDF71x	ENDF/B-VII.1	2011	293.6	263422	1707	20.0	yes	both	no	no	yes	
93236.81c	234.019	ENDF71x	ENDF/B-VII.1	2011	600.0	263134	1675	20.0	yes	both	no	no	yes	
93236.82c	234.019	ENDF71x	ENDF/B-VII.1	2011	900.0	262792	1637	20.0	yes	both	no	no	yes	
93236.83c	234.019	ENDF71x	ENDF/B-VII.1	2011	1200.0	262603	1616	20.0	yes	both	no	no	yes	
93236.84c	234.019	ENDF71x	ENDF/B-VII.1	2011	2500.0	261775	1524	20.0	yes	both	no	no	yes	
93236.85c	234.019	ENDF71x	ENDF/B-VII.1	2011	0.1	263872	1757	20.0	yes	both	no	no	yes	
93236.86c	234.019	ENDF71x	ENDF/B-VII.1	2011	250.0	263566	1723	20.0	yes	both	no	no	yes	
93236.70c	234.019	endf70j	ENDF/B-VII.0	1999	293.6	22967	1778	20	no	no	no	no	no	
93236.71c	234.019	endf70j	ENDF/B-VII.0	1999	600	22695	1744	20	no	no	no	no	no	
93236.72c	234.019	endf70j	ENDF/B-VII.0	1999	900	22511	1721	20	no	no	no	no	no	
93236.73c	234.019	endf70j	ENDF/B-VII.0	1999	1200	22327	1698	20	no	no	no	no	no	
93236.74c	234.019	endf70j	ENDF/B-VII.0	1999	2500	21759	1627	20	no	no	no	no	no	
93236.42c	234.0188	endl92	LLNL	<1992	300	13464	179	30	yes	both	no	no	no	
93236.710nc	234.019	ENDF71x	ENDF/B-VII.1	2011	293.6	263422	1707	20.0	yes	both	no	no	yes	
93236.711nc	234.019	ENDF71x	ENDF/B-VII.1	2011	600.0	263134	1675	20.0	yes	both	no	no	yes	
93236.712nc	234.019	ENDF71x	ENDF/B-VII.1	2011	900.0	262792	1637	20.0	yes	both	no	no	yes	
93236.713nc	234.019	ENDF71x	ENDF/B-VII.1	2011	1200.0	262603	1616	20.0	yes	both	no	no	yes	
93236.714nc	234.019	ENDF71x	ENDF/B-VII.1	2011	2500.0	261775	1524	20.0	yes	both	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
93236.715nc	234.019	ENDF71x	ENDF/B-VII.1	2011	0.1	263872	1757	20.0	yes	both	no	no	yes	
93236.716nc	234.019	ENDF71x	ENDF/B-VII.1	2011	250.0	263566	1723	20.0	yes	both	no	no	yes	
Np-237														
93237.80c	235.0118	ENDF71x	ENDF/B-VII.1	2004	293.6	459906	40915	20.0	yes	both	no	yes	yes	
93237.81c	235.0118	ENDF71x	ENDF/B-VII.1	2004	600.0	372930	31251	20.0	yes	both	no	yes	yes	
93237.82c	235.0118	ENDF71x	ENDF/B-VII.1	2004	900.0	335715	27116	20.0	yes	both	no	yes	yes	
93237.83c	235.0118	ENDF71x	ENDF/B-VII.1	2004	1200.0	312918	24583	20.0	yes	both	no	yes	yes	
93237.84c	235.0118	ENDF71x	ENDF/B-VII.1	2004	2500.0	271311	19960	20.0	yes	both	no	yes	yes	
93237.85c	235.0118	ENDF71x	ENDF/B-VII.1	2004	0.1	1153194	117947	20.0	yes	both	no	yes	yes	
93237.86c	235.0118	ENDF71x	ENDF/B-VII.1	2004	250.0	482937	43474	20.0	yes	both	no	yes	yes	
93237.70c	235.0118	endf70j	ENDF/B-VII.0	2004	293.6	460438	41035	20	yes	no	no	yes	yes	
93237.71c	235.0118	endf70j	ENDF/B-VII.0	2004	600	373547	31377	20	yes	no	no	yes	yes	
93237.72c	235.0118	endf70j	ENDF/B-VII.0	2004	900	336134	27220	20	yes	no	no	yes	yes	
93237.73c	235.0118	endf70j	ENDF/B-VII.0	2004	1200	313540	24713	20	yes	no	no	yes	yes	
93237.74c	235.0118	endf70j	ENDF/B-VII.0	2004	2500	271987	20096	20	yes	no	no	yes	yes	
93237.69c	235.0118	t16_2003	LANL/T16	2002	293.6	255036	18967	20	yes	both	no	yes	no	
93237.66c	235.0118	endf66c	ENDF/B-VI.1	1990	293.6	255036	18967	20	yes	both	no	yes	no	
93237.60c	235.0118	endf60	ENDF/B-VI.1	1990	293.6	105150	7218	20	yes	both	no	no	no	
93237.61c	235.0118	endf6dn	ENDF/B-VI.1	1990	293.6	110048	7218	20	yes	both	no	yes	no	
93237.55c	235.012	rmccsa	LANL/T	1984	293.6	32558	1682	20	no	both	no	no	no	
93237.50c	235.012	endf5p	ENDF/B-V.0	1978	293.6	63223	8519	20	no	tot	no	no	no	
93237.42c	235.0118	endl92	LLNL	<1992	300	31966	2477	30	yes	both	no	no	no	
93237.710nc	235.0118	ENDF71x	ENDF/B-VII.1	2004	293.6	459906	40915	20.0	yes	both	no	yes	yes	
93237.711nc	235.0118	ENDF71x	ENDF/B-VII.1	2004	600.0	372930	31251	20.0	yes	both	no	yes	yes	
93237.712nc	235.0118	ENDF71x	ENDF/B-VII.1	2004	900.0	335715	27116	20.0	yes	both	no	yes	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
93237.713nc	235.0118	ENDF71x	ENDF/B-VII.1	2004	1200.0	312918	24583	20.0	yes	both	no	yes	yes	
93237.714nc	235.0118	ENDF71x	ENDF/B-VII.1	2004	2500.0	271311	19960	20.0	yes	both	no	yes	yes	
93237.715nc	235.0118	ENDF71x	ENDF/B-VII.1	2004	0.1	1153194	117947	20.0	yes	both	no	yes	yes	
93237.716nc	235.0118	ENDF71x	ENDF/B-VII.1	2004	250.0	482937	43474	20.0	yes	both	no	yes	yes	
Np-238														
93238.80c	236.006	ENDF71x	ENDF/B-VII.1	2010	293.6	374458	1477	20.0	yes	both	no	yes	yes	
93238.81c	236.006	ENDF71x	ENDF/B-VII.1	2010	600.0	373765	1400	20.0	yes	both	no	yes	yes	
93238.82c	236.006	ENDF71x	ENDF/B-VII.1	2010	900.0	373414	1361	20.0	yes	both	no	yes	yes	
93238.83c	236.006	ENDF71x	ENDF/B-VII.1	2010	1200.0	373081	1324	20.0	yes	both	no	yes	yes	
93238.84c	236.006	ENDF71x	ENDF/B-VII.1	2010	2500.0	372100	1215	20.0	yes	both	no	yes	yes	
93238.85c	236.006	ENDF71x	ENDF/B-VII.1	2010	0.1	375457	1588	20.0	yes	both	no	yes	yes	
93238.86c	236.006	ENDF71x	ENDF/B-VII.1	2010	250.0	374521	1484	20.0	yes	both	no	yes	yes	
93238.70c	236.006	endf70j	ENDF/B-VII.0	1993	293.6	30728	982	20	no	no	no	no	no	
93238.71c	236.006	endf70j	ENDF/B-VII.0	1993	600	30728	982	20	no	no	no	no	no	
93238.72c	236.006	endf70j	ENDF/B-VII.0	1993	900	30728	982	20	no	no	no	no	no	
93238.73c	236.006	endf70j	ENDF/B-VII.0	1993	1200	30728	982	20	no	no	no	no	no	
93238.74c	236.006	endf70j	ENDF/B-VII.0	1993	2500	30728	982	20	no	no	no	no	no	
93238.42c	236.006	endl92	LLNL	<1992	300	13445	165	30	yes	both	no	no	no	
93238.710nc	236.006	ENDF71x	ENDF/B-VII.1	2010	293.6	374458	1477	20.0	yes	both	no	yes	yes	
93238.711nc	236.006	ENDF71x	ENDF/B-VII.1	2010	600.0	373765	1400	20.0	yes	both	no	yes	yes	
93238.712nc	236.006	ENDF71x	ENDF/B-VII.1	2010	900.0	373414	1361	20.0	yes	both	no	yes	yes	
93238.713nc	236.006	ENDF71x	ENDF/B-VII.1	2010	1200.0	373081	1324	20.0	yes	both	no	yes	yes	
93238.714nc	236.006	ENDF71x	ENDF/B-VII.1	2010	2500.0	372100	1215	20.0	yes	both	no	yes	yes	
93238.715nc	236.006	ENDF71x	ENDF/B-VII.1	2010	0.1	375457	1588	20.0	yes	both	no	yes	yes	
93238.716nc	236.006	ENDF71x	ENDF/B-VII.1	2010	250.0	374521	1484	20.0	yes	both	no	yes	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
Np-239														
93239.80c	236.999	ENDF71x	ENDF/B-VII.1	2010	293.6	268140	999	20.0	yes	both	no	no	no	
93239.81c	236.999	ENDF71x	ENDF/B-VII.1	2010	600.0	268203	1006	20.0	yes	both	no	no	no	
93239.82c	236.999	ENDF71x	ENDF/B-VII.1	2010	900.0	267996	983	20.0	yes	both	no	no	no	
93239.83c	236.999	ENDF71x	ENDF/B-VII.1	2010	1200.0	268068	991	20.0	yes	both	no	no	no	
93239.84c	236.999	ENDF71x	ENDF/B-VII.1	2010	2500.0	268104	995	20.0	yes	both	no	no	no	
93239.85c	236.999	ENDF71x	ENDF/B-VII.1	2010	0.1	267978	981	20.0	yes	both	no	no	no	
93239.86c	236.999	ENDF71x	ENDF/B-VII.1	2010	250.0	268086	993	20.0	yes	both	no	no	no	
93239.70c	236.999	endf70j	ENDF/B-VII.0	1987	293.6	16798	1010	20	no	no	no	no	no	
93239.71c	236.999	endf70j	ENDF/B-VII.0	1987	600	16805	1011	20	no	no	no	no	no	
93239.72c	236.999	endf70j	ENDF/B-VII.0	1987	900	16812	1012	20	no	no	no	no	no	
93239.73c	236.999	endf70j	ENDF/B-VII.0	1987	1200	16792	1009	20	no	no	no	no	no	
93239.74c	236.999	endf70j	ENDF/B-VII.0	1987	2500	16799	1010	20	no	no	no	no	no	
93239.66c	236.999	endf66c	ENDF/B-VI.0	1988	293.6	17349	1087	20	no	tot	no	no	no	
93239.60c	236.999	endf60	ENDF/B-VI.0	1988	293.6	7406	562	20	no	tot	no	no	no	
93239.710nc	236.999	ENDF71x	ENDF/B-VII.1	2010	293.6	268140	999	20.0	yes	both	no	no	no	
93239.711nc	236.999	ENDF71x	ENDF/B-VII.1	2010	600.0	268203	1006	20.0	yes	both	no	no	no	
93239.712nc	236.999	ENDF71x	ENDF/B-VII.1	2010	900.0	267996	983	20.0	yes	both	no	no	no	
93239.713nc	236.999	ENDF71x	ENDF/B-VII.1	2010	1200.0	268068	991	20.0	yes	both	no	no	no	
93239.714nc	236.999	ENDF71x	ENDF/B-VII.1	2010	2500.0	268104	995	20.0	yes	both	no	no	no	
93239.715nc	236.999	ENDF71x	ENDF/B-VII.1	2010	0.1	267978	981	20.0	yes	both	no	no	no	
93239.716nc	236.999	ENDF71x	ENDF/B-VII.1	2010	250.0	268086	993	20.0	yes	both	no	no	no	
Z = 94, plutonium														
Pu-236														
94236.80c	234.018	ENDF71x	ENDF/B-VII.1	2008	293.6	187642	1167	20.0	yes	both	no	no	no	

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
94236.81c	234.018	ENDF71x	ENDF/B-VII.1	2008	600.0	187534	1155	20.0	yes	both	no	no	no	
94236.82c	234.018	ENDF71x	ENDF/B-VII.1	2008	900.0	187516	1153	20.0	yes	both	no	no	no	
94236.83c	234.018	ENDF71x	ENDF/B-VII.1	2008	1200.0	187543	1156	20.0	yes	both	no	no	no	
94236.84c	234.018	ENDF71x	ENDF/B-VII.1	2008	2500.0	187399	1140	20.0	yes	both	no	no	no	
94236.85c	234.018	ENDF71x	ENDF/B-VII.1	2008	0.1	187876	1193	20.0	yes	both	no	no	no	
94236.86c	234.018	ENDF71x	ENDF/B-VII.1	2008	250.0	187651	1168	20.0	yes	both	no	no	no	
94236.70c	234.018	endf70j	ENDF/B-VII.0	2001	293.6	50069	1302	20	no	no	no	no	yes	
94236.71c	234.018	endf70j	ENDF/B-VII.0	2001	600	49989	1292	20	no	no	no	no	yes	
94236.72c	234.018	endf70j	ENDF/B-VII.0	2001	900	49973	1290	20	no	no	no	no	yes	
94236.73c	234.018	endf70j	ENDF/B-VII.0	2001	1200	49973	1290	20	no	no	no	no	yes	
94236.74c	234.018	endf70j	ENDF/B-VII.0	2001	2500	49853	1275	20	no	no	no	no	yes	
94236.66c	234.018	endf66c	ENDF/B-VI.4	1995	293.6	25187	1537	20	no	both	no	no	no	
94236.60c	234.018	endf60	ENDF/B-VI.0	1978	293.6	33448	4610	20	no	tot	no	no	no	
94236.710nc	234.018	ENDF71x	ENDF/B-VII.1	2008	293.6	187642	1167	20.0	yes	both	no	no	no	
94236.711nc	234.018	ENDF71x	ENDF/B-VII.1	2008	600.0	187534	1155	20.0	yes	both	no	no	no	
94236.712nc	234.018	ENDF71x	ENDF/B-VII.1	2008	900.0	187516	1153	20.0	yes	both	no	no	no	
94236.713nc	234.018	ENDF71x	ENDF/B-VII.1	2008	1200.0	187543	1156	20.0	yes	both	no	no	no	
94236.714nc	234.018	ENDF71x	ENDF/B-VII.1	2008	2500.0	187399	1140	20.0	yes	both	no	no	no	
94236.715nc	234.018	ENDF71x	ENDF/B-VII.1	2008	0.1	187876	1193	20.0	yes	both	no	no	no	
94236.716nc	234.018	ENDF71x	ENDF/B-VII.1	2008	250.0	187651	1168	20.0	yes	both	no	no	no	
Pu-237														
94237.80c	235.012	ENDF71x	ENDF/B-VII.1	2010	293.6	279836	761	20.0	yes	both	no	no	no	
94237.81c	235.012	ENDF71x	ENDF/B-VII.1	2010	600.0	279782	755	20.0	yes	both	no	no	no	
94237.82c	235.012	ENDF71x	ENDF/B-VII.1	2010	900.0	279791	756	20.0	yes	both	no	no	no	
94237.83c	235.012	ENDF71x	ENDF/B-VII.1	2010	1200.0	279782	755	20.0	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
94237.84c	235.012	ENDF71x	ENDF/B-VII.1	2010	2500.0	279710	747	20.0	yes	both	no	no	no	
94237.85c	235.012	ENDF71x	ENDF/B-VII.1	2010	0.1	279845	762	20.0	yes	both	no	no	no	
94237.86c	235.012	ENDF71x	ENDF/B-VII.1	2010	250.0	279845	762	20.0	yes	both	no	no	no	
94237.70c	235.012	endf70j	ENDF/B-VII.0	1978	293.6	10998	720	20	no	no	no	no	no	
94237.71c	235.012	endf70j	ENDF/B-VII.0	1978	600	10982	718	20	no	no	no	no	no	
94237.72c	235.012	endf70j	ENDF/B-VII.0	1978	900	10990	719	20	no	no	no	no	no	
94237.73c	235.012	endf70j	ENDF/B-VII.0	1978	1200	10982	718	20	no	no	no	no	no	
94237.74c	235.012	endf70j	ENDF/B-VII.0	1978	2500	11030	724	20	no	no	no	no	no	
94237.66c	235.012	endf66c	ENDF/B-VI.0	1978	293.6	10982	718	20	no	tot	no	no	no	
94237.60c	235.012	endf60	ENDF/B-VI.0	1978	293.6	3524	257	20	no	tot	no	no	no	
94237.42c	235.012	endl92	LLNL	<1992	300	17284	279	30	yes	both	no	no	no	
94237.710nc	235.012	ENDF71x	ENDF/B-VII.1	2010	293.6	279836	761	20.0	yes	both	no	no	no	
94237.711nc	235.012	ENDF71x	ENDF/B-VII.1	2010	600.0	279782	755	20.0	yes	both	no	no	no	
94237.712nc	235.012	ENDF71x	ENDF/B-VII.1	2010	900.0	279791	756	20.0	yes	both	no	no	no	
94237.713nc	235.012	ENDF71x	ENDF/B-VII.1	2010	1200.0	279782	755	20.0	yes	both	no	no	no	
94237.714nc	235.012	ENDF71x	ENDF/B-VII.1	2010	2500.0	279710	747	20.0	yes	both	no	no	no	
94237.715nc	235.012	ENDF71x	ENDF/B-VII.1	2010	0.1	279845	762	20.0	yes	both	no	no	no	
94237.716nc	235.012	ENDF71x	ENDF/B-VII.1	2010	250.0	279845	762	20.0	yes	both	no	no	no	
Pu-238														
94238.80c	236.0046	ENDF71x	ENDF/B-VII.1	2008	293.6	329990	14328	30.0	no	both	no	yes	yes	
94238.81c	236.0046	ENDF71x	ENDF/B-VII.1	2008	600.0	323118	13469	30.0	no	both	no	yes	yes	
94238.82c	236.0046	ENDF71x	ENDF/B-VII.1	2008	900.0	318990	12953	30.0	no	both	no	yes	yes	
94238.83c	236.0046	ENDF71x	ENDF/B-VII.1	2008	1200.0	315342	12497	30.0	no	both	no	yes	yes	
94238.84c	236.0046	ENDF71x	ENDF/B-VII.1	2008	2500.0	307582	11527	30.0	no	both	no	yes	yes	
94238.85c	236.0046	ENDF71x	ENDF/B-VII.1	2008	0.1	369294	19241	30.0	no	both	no	yes	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
94238.86c	236.0046	ENDF71x	ENDF/B-VII.1	2008	250.0	331838	14559	30.0	no	both	no	yes	yes	
94238.70c	236.0045	endf70j	ENDF/B-VII.0	1978	293.6	64195	5676	20	no	no	no	yes	yes	
94238.71c	236.0045	endf70j	ENDF/B-VII.0	1978	600	61419	5329	20	no	no	no	yes	yes	
94238.72c	236.0045	endf70j	ENDF/B-VII.0	1978	900	60851	5258	20	no	no	no	yes	yes	
94238.73c	236.0045	endf70j	ENDF/B-VII.0	1978	1200	59651	5108	20	no	no	no	yes	yes	
94238.74c	236.0045	endf70j	ENDF/B-VII.0	1978	2500	57211	4803	20	no	no	no	yes	yes	
94238.66c	236.0045	endf66c	ENDF/B-VI.0	1978	293.6	58875	5603	20	no	both	no	yes	yes	
94238.65c	236.0045	endf66e	ENDF/B-VI.0	1978	3000.1	50571	4565	20	no	both	no	yes	yes	
94238.60c	236.0045	endf60	ENDF/B-VI.0	1978	293.6	29054	3753	20	no	both	no	no	no	
94238.49c	236.0045	uresa	ENDF/B-VI.0	1978	300	41814	5337	20	no	both	no	no	yes	
94238.61c	236.0045	endf6dn	ENDF/B-VI.0	1978	293.6	33952	3753	20	no	both	no	yes	no	
94238.51c	236.167	rmccs	ENDF/B-V.0	1978	293.6	6067	537	20	no	tot	no	no	no	
94238.50c	236.167	endf5p	ENDF/B-V.0	1978	293.6	18763	2301	20	no	tot	no	no	no	
94238.42c	236.0046	endl92	LLNL	<1992	300	30572	2177	30	yes	both	no	no	no	
94238.710nc	236.0046	ENDF71x	ENDF/B-VII.1	2008	293.6	329990	14328	30.0	no	both	no	yes	yes	
94238.711nc	236.0046	ENDF71x	ENDF/B-VII.1	2008	600.0	323118	13469	30.0	no	both	no	yes	yes	
94238.712nc	236.0046	ENDF71x	ENDF/B-VII.1	2008	900.0	318990	12953	30.0	no	both	no	yes	yes	
94238.713nc	236.0046	ENDF71x	ENDF/B-VII.1	2008	1200.0	315342	12497	30.0	no	both	no	yes	yes	
94238.714nc	236.0046	ENDF71x	ENDF/B-VII.1	2008	2500.0	307582	11527	30.0	no	both	no	yes	yes	
94238.715nc	236.0046	ENDF71x	ENDF/B-VII.1	2008	0.1	369294	19241	30.0	no	both	no	yes	yes	
94238.716nc	236.0046	ENDF71x	ENDF/B-VII.1	2008	250.0	331838	14559	30.0	no	both	no	yes	yes	
Pu-239														
94239.80c	236.9986	ENDF71x	ENDF/B-VII.1	2006	293.6	811599	72051	20.0	yes	both	no	yes	yes	
94239.81c	236.9986	ENDF71x	ENDF/B-VII.1	2006	600.0	701637	59833	20.0	yes	both	no	yes	yes	
94239.82c	236.9986	ENDF71x	ENDF/B-VII.1	2006	900.0	642696	53284	20.0	yes	both	no	yes	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
94239.83c	236.9986	ENDF71x	ENDF/B-VII.1	2006	1200.0	604536	49044	20.0	yes	both	no	yes	yes	
94239.84c	236.9986	ENDF71x	ENDF/B-VII.1	2006	2500.0	514230	39010	20.0	yes	both	no	yes	yes	
94239.85c	236.9986	ENDF71x	ENDF/B-VII.1	2006	0.1	1440645	141945	20.0	yes	both	no	yes	yes	
94239.86c	236.9986	ENDF71x	ENDF/B-VII.1	2006	250.0	834531	74599	20.0	yes	both	no	yes	yes	
94239.70c	236.9986	endf70j	ENDF/B-VII.0	2006	293.6	808738	72098	20	yes	no	no	yes	yes	
94239.71c	236.9986	endf70j	ENDF/B-VII.0	2006	600	698776	59880	20	yes	no	no	yes	yes	
94239.72c	236.9986	endf70j	ENDF/B-VII.0	2006	900	639835	53331	20	yes	no	no	yes	yes	
94239.73c	236.9986	endf70j	ENDF/B-VII.0	2006	1200	601675	49091	20	yes	no	no	yes	yes	
94239.74c	236.9986	endf70j	ENDF/B-VII.0	2006	2500	511369	39057	20	yes	no	no	yes	yes	
94239.69c	236.9986	t16_2003	LANL/T16	2003	293.6	706549	63868	20	yes	both	no	yes	yes	
94239.67c	236.9986	t16_2003	LANL/T16	2003	77	887458	83969	20	yes	both	no	yes	yes	
94239.68c	236.9986	t16_2003	LANL/T16	2003	3000	395617	29320	20	yes	both	no	yes	yes	
94239.66c	236.9986	endf66c	ENDF/B-VI.5	1997	293.6	685322	63868	20	yes	both	no	yes	yes	
94239.64c	236.9986	endf66d	ENDF/B-VI.5	1997	77	866231	83969	20	yes	both	no	yes	yes	
94239.65c	236.9986	endf66e	ENDF/B-VI.5	1997	3000.1	374390	29320	20	yes	both	no	yes	yes	
94239.60c	236.9986	endf60	ENDF/B-VI.2	1993	293.6	283354	26847	20	yes	both	no	no	no	
94239.49c	236.9986	uresa	ENDF/B-VI.2	1993	300	595005	64841	20	yes	both	no	no	yes	
94239.61c	236.9986	endf6dn	ENDF/B-VI.2	1993	293.6	288252	26847	20	yes	both	no	yes	no	
94239.55c	236.999	rmccs	ENDF/B-V.2	1983	293.6	102099	10318	20	yes	both	no	no	no	
94239.50c	236.999	endf5p	ENDF/B-V.0	1976	293.6	74049	7809	20	yes	both	no	no	no	
94239.42c	236.9986	endl92	LLNL	<1992	300	93878	6827	30	yes	both	no	no	no	
94239.11c	236.9986	endf62mt	ENDF/B-VI.2	1993	77	568756	62522	20	yes	both	no	no	no	
94239.12c	236.9986	endf62mt	ENDF/B-VI.2	1993	400	418556	43747	20	yes	both	no	no	no	
94239.13c	236.9986	endf62mt	ENDF/B-VI.2	1993	500	395964	40923	20	yes	both	no	no	no	
94239.14c	236.9986	endf62mt	ENDF/B-VI.2	1993	600	377116	38567	20	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
94239.15c	236.9986	endf62mt	ENDF/B-VI.2	1993	800	350292	35214	20	yes	both	no	no	no	
94239.16c	236.9986	endf62mt	ENDF/B-VI.2	1993	900	338236	33707	20	yes	both	no	no	no	
94239.17c	236.9986	endf62mt	ENDF/B-VI.2	1993	1200	312572	30499	20	yes	both	no	no	no	
94239.710nc	236.9986	ENDF71x	ENDF/B-VII.1	2006	293.6	811599	72051	20.0	yes	both	no	yes	yes	
94239.711nc	236.9986	ENDF71x	ENDF/B-VII.1	2006	600.0	701637	59833	20.0	yes	both	no	yes	yes	
94239.712nc	236.9986	ENDF71x	ENDF/B-VII.1	2006	900.0	642696	53284	20.0	yes	both	no	yes	yes	
94239.713nc	236.9986	ENDF71x	ENDF/B-VII.1	2006	1200.0	604536	49044	20.0	yes	both	no	yes	yes	
94239.714nc	236.9986	ENDF71x	ENDF/B-VII.1	2006	2500.0	514230	39010	20.0	yes	both	no	yes	yes	
94239.715nc	236.9986	ENDF71x	ENDF/B-VII.1	2006	0.1	1440645	141945	20.0	yes	both	no	yes	yes	
94239.716nc	236.9986	ENDF71x	ENDF/B-VII.1	2006	250.0	834531	74599	20.0	yes	both	no	yes	yes	
Pu-240														
94240.80c	237.9916	ENDF71x	ENDF/B-VII.1	2010	293.6	782506	48359	30.0	yes	both	no	yes	yes	
94240.81c	237.9916	ENDF71x	ENDF/B-VII.1	2010	600.0	753139	45096	30.0	yes	both	no	yes	yes	
94240.82c	237.9916	ENDF71x	ENDF/B-VII.1	2010	900.0	737443	43352	30.0	yes	both	no	yes	yes	
94240.83c	237.9916	ENDF71x	ENDF/B-VII.1	2010	1200.0	723304	41781	30.0	yes	both	no	yes	yes	
94240.84c	237.9916	ENDF71x	ENDF/B-VII.1	2010	2500.0	689221	37994	30.0	yes	both	no	yes	yes	
94240.85c	237.9916	ENDF71x	ENDF/B-VII.1	2010	0.1	1037359	76676	30.0	yes	both	no	yes	yes	
94240.86c	237.9916	ENDF71x	ENDF/B-VII.1	2010	250.0	789202	49103	30.0	yes	both	no	yes	yes	
94240.70c	237.992	endf70j	ENDF/B-VII.0	1986	293.6	446466	47004	20	yes	no	no	yes	yes	
94240.71c	237.992	endf70j	ENDF/B-VII.0	1986	600	417306	43764	20	yes	no	no	yes	yes	
94240.72c	237.992	endf70j	ENDF/B-VII.0	1986	900	401115	41965	20	yes	no	no	yes	yes	
94240.73c	237.992	endf70j	ENDF/B-VII.0	1986	1200	386661	40359	20	yes	no	no	yes	yes	
94240.74c	237.992	endf70j	ENDF/B-VII.0	1986	2500	353271	36649	20	yes	no	no	yes	yes	
94240.66c	237.992	endf66c	ENDF/B-VI.2	1986	293.6	395889	41912	20	yes	both	no	yes	yes	
94240.65c	237.992	endf66e	ENDF/B-VI.2	1986	3000.1	283740	29451	20	yes	both	no	yes	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
94240.60c	237.992	endf60	ENDF/B-VI.2	1986	293.6	133071	15676	20	yes	both	no	no	no	
94240.49c	237.992	uresa	ENDF/B-VI.2	1986	300	341542	41596	20	yes	both	no	no	yes	
94240.61c	237.992	endf6dn	ENDF/B-VI.2	1986	293.6	137969	15676	20	yes	both	no	yes	no	
94240.50c	237.992	rmccs	ENDF/B-V.0	1977	293.6	58917	6549	20	yes	both	no	no	no	
94240.42c	237.9916	endl92	LLNL	<1992	300	198041	16626	30	yes	both	no	no	no	
94240.710nc	237.9916	ENDF71x	ENDF/B-VII.1	2010	293.6	782506	48359	30.0	yes	both	no	yes	yes	
94240.711nc	237.9916	ENDF71x	ENDF/B-VII.1	2010	600.0	753139	45096	30.0	yes	both	no	yes	yes	
94240.712nc	237.9916	ENDF71x	ENDF/B-VII.1	2010	900.0	737443	43352	30.0	yes	both	no	yes	yes	
94240.713nc	237.9916	ENDF71x	ENDF/B-VII.1	2010	1200.0	723304	41781	30.0	yes	both	no	yes	yes	
94240.714nc	237.9916	ENDF71x	ENDF/B-VII.1	2010	2500.0	689221	37994	30.0	yes	both	no	yes	yes	
94240.715nc	237.9916	ENDF71x	ENDF/B-VII.1	2010	0.1	1037359	76676	30.0	yes	both	no	yes	yes	
94240.716nc	237.9916	ENDF71x	ENDF/B-VII.1	2010	250.0	789202	49103	30.0	yes	both	no	yes	yes	
Pu-241														
94241.80c	238.978	ENDF71x	ENDF/B-VII.1	2003	293.6	192888	18430	20.0	yes	both	no	yes	yes	
94241.81c	238.978	ENDF71x	ENDF/B-VII.1	2003	600.0	167643	15625	20.0	yes	both	no	yes	yes	
94241.82c	238.978	ENDF71x	ENDF/B-VII.1	2003	900.0	153000	13998	20.0	yes	both	no	yes	yes	
94241.83c	238.978	ENDF71x	ENDF/B-VII.1	2003	1200.0	143316	12922	20.0	yes	both	no	yes	yes	
94241.84c	238.978	ENDF71x	ENDF/B-VII.1	2003	2500.0	117288	10030	20.0	yes	both	no	yes	yes	
94241.85c	238.978	ENDF71x	ENDF/B-VII.1	2003	0.1	269415	26933	20.0	yes	both	no	yes	yes	
94241.86c	238.978	ENDF71x	ENDF/B-VII.1	2003	250.0	198225	19023	20.0	yes	both	no	yes	yes	
94241.70c	238.978	endf70j	ENDF/B-VII.0	2003	293.6	193359	18544	20	yes	no	no	yes	yes	
94241.71c	238.978	endf70j	ENDF/B-VII.0	2003	600	168114	15739	20	yes	no	no	yes	yes	
94241.72c	238.978	endf70j	ENDF/B-VII.0	2003	900	153471	14112	20	yes	no	no	yes	yes	
94241.73c	238.978	endf70j	ENDF/B-VII.0	2003	1200	143787	13036	20	yes	no	no	yes	yes	
94241.74c	238.978	endf70j	ENDF/B-VII.0	2003	2500	117759	10144	20	yes	no	no	yes	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
94241.66c	238.978	endf66c	ENDF/B-VI.3	1994	293.6	185478	18196	20	yes	both	no	yes	yes	
94241.65c	238.978	endf66e	ENDF/B-VI.3	1994	3000.1	104019	9145	20	yes	both	no	yes	yes	
94241.60c	238.978	endf60	ENDF/B-VI.1	1988	293.6	76453	8112	20	yes	both	no	no	no	
94241.49c	238.978	uresa	ENDF/B-VI.3	1994	300	155886	17753	20	yes	both	no	no	yes	
94241.61c	238.978	endf6dn	ENDF/B-VI.1	1988	293.6	81351	8112	20	yes	both	no	yes	no	
94241.51c	238.978	rmccs	ENDF/B-V.0	1977	293.6	13403	623	20	yes	both	no	no	no	
94241.50c	238.978	endf5p	ENDF/B-V.0	1977	293.6	38601	3744	20	yes	both	no	no	no	
94241.42c	238.986	endl92	LLNL	<1992	300	14108	203	30	yes	both	no	no	no	
94241.710nc	238.978	ENDF71x	ENDF/B-VII.1	2003	293.6	192888	18430	20.0	yes	both	no	yes	yes	
94241.711nc	238.978	ENDF71x	ENDF/B-VII.1	2003	600.0	167643	15625	20.0	yes	both	no	yes	yes	
94241.712nc	238.978	ENDF71x	ENDF/B-VII.1	2003	900.0	153000	13998	20.0	yes	both	no	yes	yes	
94241.713nc	238.978	ENDF71x	ENDF/B-VII.1	2003	1200.0	143316	12922	20.0	yes	both	no	yes	yes	
94241.714nc	238.978	ENDF71x	ENDF/B-VII.1	2003	2500.0	117288	10030	20.0	yes	both	no	yes	yes	
94241.715nc	238.978	ENDF71x	ENDF/B-VII.1	2003	0.1	269415	26933	20.0	yes	both	no	yes	yes	
94241.716nc	238.978	ENDF71x	ENDF/B-VII.1	2003	250.0	198225	19023	20.0	yes	both	no	yes	yes	
Pu-242														
94242.80c	239.979	ENDF71x	ENDF/B-VII.1	2011	293.6	381418	15668	20.0	yes	both	no	yes	yes	
94242.81c	239.979	ENDF71x	ENDF/B-VII.1	2011	600.0	372238	14648	20.0	yes	both	no	yes	yes	
94242.82c	239.979	ENDF71x	ENDF/B-VII.1	2011	900.0	368872	14274	20.0	yes	both	no	yes	yes	
94242.83c	239.979	ENDF71x	ENDF/B-VII.1	2011	1200.0	364165	13751	20.0	yes	both	no	yes	yes	
94242.84c	239.979	ENDF71x	ENDF/B-VII.1	2011	2500.0	354508	12678	20.0	yes	both	no	yes	yes	
94242.85c	239.979	ENDF71x	ENDF/B-VII.1	2011	0.1	449908	23278	20.0	yes	both	no	yes	yes	
94242.86c	239.979	ENDF71x	ENDF/B-VII.1	2011	250.0	383902	15944	20.0	yes	both	no	yes	yes	
94242.70c	239.979	endf70j	ENDF/B-VII.0	1978	293.6	176132	16750	20	yes	no	no	yes	yes	
94242.71c	239.979	endf70j	ENDF/B-VII.0	1978	600	166178	15644	20	yes	no	no	yes	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
94242.72c	239.979	endf70j	ENDF/B-VII.0	1978	900	161210	15092	20	yes	no	no	yes	yes	
94242.73c	239.979	endf70j	ENDF/B-VII.0	1978	1200	158051	14741	20	yes	no	no	yes	yes	
94242.74c	239.979	endf70j	ENDF/B-VII.0	1978	2500	146576	13466	20	yes	no	no	yes	yes	
94242.66c	239.979	endf66c	ENDF/B-VI.0	1978	293.6	157136	15167	20	yes	both	no	yes	yes	
94242.65c	239.979	endf66e	ENDF/B-VI.0	1978	3000.1	123314	11409	20	yes	both	no	yes	yes	
94242.60c	239.979	endf60	ENDF/B-VI.0	1978	293.6	73725	7896	20	yes	both	no	no	no	
94242.49c	239.979	uresa	ENDF/B-VI.0	1978	300	130202	14922	20	yes	both	no	no	yes	
94242.61c	239.979	endf6dn	ENDF/B-VI.0	1978	293.6	78623	7896	20	yes	both	no	yes	no	
94242.51c	239.979	rmccs	ENDF/B-V.0	1978	293.6	15702	728	20	yes	both	no	no	no	
94242.50c	239.979	endf5p	ENDF/B-V.0	1978	293.6	71429	7636	20	yes	both	no	no	no	
94242.42c	239.9793	endl92	LLNL	<1992	300	48688	4287	30	yes	both	no	no	no	
94242.710nc	239.979	ENDF71x	ENDF/B-VII.1	2011	293.6	381418	15668	20.0	yes	both	no	yes	yes	
94242.711nc	239.979	ENDF71x	ENDF/B-VII.1	2011	600.0	372238	14648	20.0	yes	both	no	yes	yes	
94242.712nc	239.979	ENDF71x	ENDF/B-VII.1	2011	900.0	368872	14274	20.0	yes	both	no	yes	yes	
94242.713nc	239.979	ENDF71x	ENDF/B-VII.1	2011	1200.0	364165	13751	20.0	yes	both	no	yes	yes	
94242.714nc	239.979	ENDF71x	ENDF/B-VII.1	2011	2500.0	354508	12678	20.0	yes	both	no	yes	yes	
94242.715nc	239.979	ENDF71x	ENDF/B-VII.1	2011	0.1	449908	23278	20.0	yes	both	no	yes	yes	
94242.716nc	239.979	ENDF71x	ENDF/B-VII.1	2011	250.0	383902	15944	20.0	yes	both	no	yes	yes	
Pu-243														
94243.80c	240.974	ENDF71x	ENDF/B-VII.1	1976	293.6	98284	9304	20.0	yes	nubar	no	no	yes	
94243.81c	240.974	ENDF71x	ENDF/B-VII.1	1976	600.0	93064	8724	20.0	yes	nubar	no	no	yes	
94243.82c	240.974	ENDF71x	ENDF/B-VII.1	1976	900.0	88960	8268	20.0	yes	nubar	no	no	yes	
94243.83c	240.974	ENDF71x	ENDF/B-VII.1	1976	1200.0	85576	7892	20.0	yes	nubar	no	no	yes	
94243.84c	240.974	ENDF71x	ENDF/B-VII.1	1976	2500.0	76783	6915	20.0	yes	nubar	no	no	yes	
94243.85c	240.974	ENDF71x	ENDF/B-VII.1	1976	0.1	116338	11310	20.0	yes	nubar	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
94243.86c	240.974	ENDF71x	ENDF/B-VII.1	1976	250.0	99436	9432	20.0	yes	nubar	no	no	yes	
94243.70c	240.974	endf70j	ENDF/B-VII.0	1976	293.6	97802	9430	20	yes	no	no	no	yes	
94243.71c	240.974	endf70j	ENDF/B-VII.0	1976	600	92582	8850	20	yes	no	no	no	yes	
94243.72c	240.974	endf70j	ENDF/B-VII.0	1976	900	88478	8394	20	yes	no	no	no	yes	
94243.73c	240.974	endf70j	ENDF/B-VII.0	1976	1200	85094	8018	20	yes	no	no	no	yes	
94243.74c	240.974	endf70j	ENDF/B-VII.0	1976	2500	76301	7041	20	yes	no	no	no	yes	
94243.66c	240.974	endf66c	ENDF/B-VI.2	1976	293.6	97856	9436	20	yes	tot	no	no	yes	
94243.65c	240.974	endf66e	ENDF/B-VI.2	1976	3000.1	70649	6413	20	yes	tot	no	no	yes	
94243.60c	240.974	endf60	ENDF/B-VI.2	1976	293.6	45142	4452	20	yes	tot	no	no	no	
94243.42c	240.974	endl92	LLNL	<1992	300	20253	745	30	yes	both	no	no	no	
94243.710nc	240.974	ENDF71x	ENDF/B-VII.1	1976	293.6	98284	9304	20.0	yes	nubar	no	no	yes	
94243.711nc	240.974	ENDF71x	ENDF/B-VII.1	1976	600.0	93064	8724	20.0	yes	nubar	no	no	yes	
94243.712nc	240.974	ENDF71x	ENDF/B-VII.1	1976	900.0	88960	8268	20.0	yes	nubar	no	no	yes	
94243.713nc	240.974	ENDF71x	ENDF/B-VII.1	1976	1200.0	85576	7892	20.0	yes	nubar	no	no	yes	
94243.714nc	240.974	ENDF71x	ENDF/B-VII.1	1976	2500.0	76783	6915	20.0	yes	nubar	no	no	yes	
94243.715nc	240.974	ENDF71x	ENDF/B-VII.1	1976	0.1	116338	11310	20.0	yes	nubar	no	no	yes	
94243.716nc	240.974	ENDF71x	ENDF/B-VII.1	1976	250.0	99436	9432	20.0	yes	nubar	no	no	yes	
Pu-244														
94244.80c	241.967	ENDF71x	ENDF/B-VII.1	2008	293.6	213170	5931	20.0	yes	both	no	no	yes	
94244.81c	241.967	ENDF71x	ENDF/B-VII.1	2008	600.0	211136	5705	20.0	yes	both	no	no	yes	
94244.82c	241.967	ENDF71x	ENDF/B-VII.1	2008	900.0	209750	5551	20.0	yes	both	no	no	yes	
94244.83c	241.967	ENDF71x	ENDF/B-VII.1	2008	1200.0	208904	5457	20.0	yes	both	no	no	yes	
94244.84c	241.967	ENDF71x	ENDF/B-VII.1	2008	2500.0	206708	5213	20.0	yes	both	no	no	yes	
94244.85c	241.967	ENDF71x	ENDF/B-VII.1	2008	0.1	227678	7543	20.0	yes	both	no	no	yes	
94244.86c	241.967	ENDF71x	ENDF/B-VII.1	2008	250.0	213638	5983	20.0	yes	both	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
94244.70c	241.968	endf70j	ENDF/B-VII.0	1978	293.6	63231	8164	20	no	no	no	no	yes	
94244.71c	241.968	endf70j	ENDF/B-VII.0	1978	600	60322	7748	20	no	no	no	no	yes	
94244.72c	241.968	endf70j	ENDF/B-VII.0	1978	900	59019	7562	20	no	no	no	no	yes	
94244.73c	241.968	endf70j	ENDF/B-VII.0	1978	1200	57615	7361	20	no	no	no	no	yes	
94244.74c	241.968	endf70j	ENDF/B-VII.0	1978	2500	55165	7010	20	no	no	no	no	yes	
94244.66c	241.968	endf66c	ENDF/B-VI.0	1978	293.6	61726	7931	20	no	tot	no	no	yes	
94244.65c	241.968	endf66e	ENDF/B-VI.0	1978	3000.1	51446	6450	20	no	tot	no	no	yes	
94244.60c	241.968	endf60	ENDF/B-VI.0	1978	293.6	23654	3695	20	no	tot	no	no	no	
94244.710nc	241.967	ENDF71x	ENDF/B-VII.1	2008	293.6	213170	5931	20.0	yes	both	no	no	yes	
94244.711nc	241.967	ENDF71x	ENDF/B-VII.1	2008	600.0	211136	5705	20.0	yes	both	no	no	yes	
94244.712nc	241.967	ENDF71x	ENDF/B-VII.1	2008	900.0	209750	5551	20.0	yes	both	no	no	yes	
94244.713nc	241.967	ENDF71x	ENDF/B-VII.1	2008	1200.0	208904	5457	20.0	yes	both	no	no	yes	
94244.714nc	241.967	ENDF71x	ENDF/B-VII.1	2008	2500.0	206708	5213	20.0	yes	both	no	no	yes	
94244.715nc	241.967	ENDF71x	ENDF/B-VII.1	2008	0.1	227678	7543	20.0	yes	both	no	no	yes	
94244.716nc	241.967	ENDF71x	ENDF/B-VII.1	2008	250.0	213638	5983	20.0	yes	both	no	no	yes	
Pu-246														
94246.80c	243.956	ENDF71x	ENDF/B-VII.1	2008	293.6	172621	898	20.0	yes	both	no	no	no	
94246.81c	243.956	ENDF71x	ENDF/B-VII.1	2008	600.0	172621	898	20.0	yes	both	no	no	no	
94246.82c	243.956	ENDF71x	ENDF/B-VII.1	2008	900.0	172612	897	20.0	yes	both	no	no	no	
94246.83c	243.956	ENDF71x	ENDF/B-VII.1	2008	1200.0	172621	898	20.0	yes	both	no	no	no	
94246.84c	243.956	ENDF71x	ENDF/B-VII.1	2008	2500.0	172594	895	20.0	yes	both	no	no	no	
94246.85c	243.956	ENDF71x	ENDF/B-VII.1	2008	0.1	172558	891	20.0	yes	both	no	no	no	
94246.86c	243.956	ENDF71x	ENDF/B-VII.1	2008	250.0	172612	897	20.0	yes	both	no	no	no	
94246.70c	243.956	endf70j	ENDF/B-VII.0	2000	293.6	19137	865	20	no	no	no	no	no	
94246.71c	243.956	endf70j	ENDF/B-VII.0	2000	600	19116	862	20	no	no	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
94246.72c	243.956	endf70j	ENDF/B-VII.0	2000	900	19116	862	20	no	no	no	no	no	
94246.73c	243.956	endf70j	ENDF/B-VII.0	2000	1200	19116	862	20	no	no	no	no	no	
94246.74c	243.956	endf70j	ENDF/B-VII.0	2000	2500	19088	858	20	no	no	no	no	no	
94246.710nc	243.956	ENDF71x	ENDF/B-VII.1	2008	293.6	172621	898	20.0	yes	both	no	no	no	
94246.711nc	243.956	ENDF71x	ENDF/B-VII.1	2008	600.0	172621	898	20.0	yes	both	no	no	no	
94246.712nc	243.956	ENDF71x	ENDF/B-VII.1	2008	900.0	172612	897	20.0	yes	both	no	no	no	
94246.713nc	243.956	ENDF71x	ENDF/B-VII.1	2008	1200.0	172621	898	20.0	yes	both	no	no	no	
94246.714nc	243.956	ENDF71x	ENDF/B-VII.1	2008	2500.0	172594	895	20.0	yes	both	no	no	no	
94246.715nc	243.956	ENDF71x	ENDF/B-VII.1	2008	0.1	172558	891	20.0	yes	both	no	no	no	
94246.716nc	243.956	ENDF71x	ENDF/B-VII.1	2008	250.0	172612	897	20.0	yes	both	no	no	no	
				Z = 95, americium										
Am-240														
95240.80c	237.993	ENDF71x	ENDF/B-VII.1	2008	293.6	221504	755	20.0	yes	both	no	no	no	
95240.81c	237.993	ENDF71x	ENDF/B-VII.1	2008	600.0	221522	757	20.0	yes	both	no	no	no	
95240.82c	237.993	ENDF71x	ENDF/B-VII.1	2008	900.0	221495	754	20.0	yes	both	no	no	no	
95240.83c	237.993	ENDF71x	ENDF/B-VII.1	2008	1200.0	221450	749	20.0	yes	both	no	no	no	
95240.84c	237.993	ENDF71x	ENDF/B-VII.1	2008	2500.0	221459	750	20.0	yes	both	no	no	no	
95240.85c	237.993	ENDF71x	ENDF/B-VII.1	2008	0.1	221540	759	20.0	yes	both	no	no	no	
95240.86c	237.993	ENDF71x	ENDF/B-VII.1	2008	250.0	221522	757	20.0	yes	both	no	no	no	
95240.710nc	237.993	ENDF71x	ENDF/B-VII.1	2008	293.6	221504	755	20.0	yes	both	no	no	no	
95240.711nc	237.993	ENDF71x	ENDF/B-VII.1	2008	600.0	221522	757	20.0	yes	both	no	no	no	
95240.712nc	237.993	ENDF71x	ENDF/B-VII.1	2008	900.0	221495	754	20.0	yes	both	no	no	no	
95240.713nc	237.993	ENDF71x	ENDF/B-VII.1	2008	1200.0	221450	749	20.0	yes	both	no	no	no	
95240.714nc	237.993	ENDF71x	ENDF/B-VII.1	2008	2500.0	221459	750	20.0	yes	both	no	no	no	
95240.715nc	237.993	ENDF71x	ENDF/B-VII.1	2008	0.1	221540	759	20.0	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
95240.716nc	237.993	ENDF71x	ENDF/B-VII.1	2008	250.0	221522	757	20.0	yes	both	no	no	no	
Am-241														
95241.80c	238.986	ENDF71x	ENDF/B-VII.1	2006	293.6	277458	19754	30.0	yes	both	no	yes	yes	
95241.81c	238.986	ENDF71x	ENDF/B-VII.1	2006	600.0	243474	15978	30.0	yes	both	no	yes	yes	
95241.82c	238.986	ENDF71x	ENDF/B-VII.1	2006	900.0	223899	13803	30.0	yes	both	no	yes	yes	
95241.83c	238.986	ENDF71x	ENDF/B-VII.1	2006	1200.0	211965	12477	30.0	yes	both	no	yes	yes	
95241.84c	238.986	ENDF71x	ENDF/B-VII.1	2006	2500.0	186423	9639	30.0	yes	both	no	yes	yes	
95241.85c	238.986	ENDF71x	ENDF/B-VII.1	2006	0.1	428811	36571	30.0	yes	both	no	yes	yes	
95241.86c	238.986	ENDF71x	ENDF/B-VII.1	2006	250.0	285441	20641	30.0	yes	both	no	yes	yes	
95241.70c	238.986	endf70k	ENDF/B-VII.0	2006	293.6	271035	19721	30	yes	both	no	yes	yes	
95241.71c	238.986	endf70k	ENDF/B-VII.0	2006	600	236037	15838	30	yes	both	no	yes	yes	
95241.72c	238.986	endf70k	ENDF/B-VII.0	2006	900	218274	13854	30	yes	both	no	yes	yes	
95241.73c	238.986	endf70k	ENDF/B-VII.0	2006	1200	206130	12515	30	yes	both	no	yes	yes	
95241.74c	238.986	endf70k	ENDF/B-VII.0	2006	2500	179697	9578	30	yes	both	no	yes	yes	
95241.69c	238.986	t16_2003	LANL/T16	2003	293.6	267605	19639	30	yes	both	no	yes	yes	
95241.68c	238.986	t16_2003	LANL/T16	2003	3000	163034	8020	30	yes	both	no	yes	yes	
95241.66c	238.986	endf66c	ENDF/B-VI.3:X	1994	293.6	267137	19630	30	yes	both	no	yes	yes	
95241.65c	238.986	endf66e	ENDF/B-VI.3:X	1994	3000.1	162566	8011	30	yes	both	no	yes	yes	
95241.60c	238.986	endf60	LANL/T	1994	300	168924	13556	30	yes	both	no	no	no	
95241.61c	238.986	endf6dn	LANL/T	1994	300	173822	13556	30	yes	both	no	yes	no	
95241.51c	238.986	rmccs	ENDF/B-V.0	1978	293.6	12374	713	20	yes	tot	no	no	no	
95241.50c	238.986	endf5u	ENDF/B-V.0	1978	293.6	42084	4420	20	yes	tot	no	no	no	
95241.42c	238.986	endl92	LLNL	<1992	300	32579	2011	30	yes	both	no	no	no	
95241.710nc	238.986	ENDF71x	ENDF/B-VII.1	2006	293.6	277458	19754	30.0	yes	both	no	yes	yes	
95241.711nc	238.986	ENDF71x	ENDF/B-VII.1	2006	600.0	243474	15978	30.0	yes	both	no	yes	yes	

Continued on next page.

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
95241.712nc	238.986	ENDF71x	ENDF/B-VII.1	2006	900.0	223899	13803	30.0	yes	both	no	yes	yes	
95241.713nc	238.986	ENDF71x	ENDF/B-VII.1	2006	1200.0	211965	12477	30.0	yes	both	no	yes	yes	
95241.714nc	238.986	ENDF71x	ENDF/B-VII.1	2006	2500.0	186423	9639	30.0	yes	both	no	yes	yes	
95241.715nc	238.986	ENDF71x	ENDF/B-VII.1	2006	0.1	428811	36571	30.0	yes	both	no	yes	yes	
95241.716nc	238.986	ENDF71x	ENDF/B-VII.1	2006	250.0	285441	20641	30.0	yes	both	no	yes	yes	
Am-242														
95242.80c	239.9801	ENDF71x	ENDF/B-VII.1	2005	293.6	142609	3002	20.0	no	both	no	no	yes	
95242.81c	239.9801	ENDF71x	ENDF/B-VII.1	2005	600.0	140097	2688	20.0	no	both	no	no	yes	
95242.82c	239.9801	ENDF71x	ENDF/B-VII.1	2005	900.0	138809	2527	20.0	no	both	no	no	yes	
95242.83c	239.9801	ENDF71x	ENDF/B-VII.1	2005	1200.0	137937	2418	20.0	no	both	no	no	yes	
95242.84c	239.9801	ENDF71x	ENDF/B-VII.1	2005	2500.0	135857	2158	20.0	no	both	no	no	yes	
95242.85c	239.9801	ENDF71x	ENDF/B-VII.1	2005	0.1	147801	3651	20.0	no	both	no	no	yes	
95242.86c	239.9801	ENDF71x	ENDF/B-VII.1	2005	250.0	143049	3057	20.0	no	both	no	no	yes	
95242.70c	239.9801	endf70k	ENDF/B-VII.0:x	2005	293.6	143268	3068	20	no	both	no	no	yes	
95242.71c	239.9801	endf70k	ENDF/B-VII.0:x	2005	600	140756	2754	20	no	both	no	no	yes	
95242.72c	239.9801	endf70k	ENDF/B-VII.0:x	2005	900	139468	2593	20	no	both	no	no	yes	
95242.73c	239.9801	endf70k	ENDF/B-VII.0:x	2005	1200	138596	2484	20	no	both	no	no	yes	
95242.74c	239.9801	endf70k	ENDF/B-VII.0:x	2005	2500	136516	2224	20	no	both	no	no	yes	
95242.66c	239.98	endf66c	ENDF/B-VI.1	1978	293.6	27625	933	20	yes	both	no	yes	yes	
95242.65c	239.98	endf66e	ENDF/B-VI.1	1978	3000.1	27793	945	20	yes	both	no	yes	yes	
95242.51c	239.98	rmccs	ENDF/B-V.0	1978	293.6	8502	317	20	yes	tot	no	no	no	
95242.50c	239.98	endf5u	ENDF/B-V.0	1978	293.6	8593	323	20	yes	tot	no	no	no	
95242.42c	239.9801	endl92	LLNL	<1992	300	21828	1368	20	yes	both	no	no	no	
95242.710nc	239.9801	ENDF71x	ENDF/B-VII.1	2005	293.6	142609	3002	20.0	no	both	no	no	yes	
95242.711nc	239.9801	ENDF71x	ENDF/B-VII.1	2005	600.0	140097	2688	20.0	no	both	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
95242.712nc	239.9801	ENDF71x	ENDF/B-VII.1	2005	900.0	138809	2527	20.0	no	both	no	no	yes	
95242.713nc	239.9801	ENDF71x	ENDF/B-VII.1	2005	1200.0	137937	2418	20.0	no	both	no	no	yes	
95242.714nc	239.9801	ENDF71x	ENDF/B-VII.1	2005	2500.0	135857	2158	20.0	no	both	no	no	yes	
95242.715nc	239.9801	ENDF71x	ENDF/B-VII.1	2005	0.1	147801	3651	20.0	no	both	no	no	yes	
95242.716nc	239.9801	ENDF71x	ENDF/B-VII.1	2005	250.0	143049	3057	20.0	no	both	no	no	yes	
Am-243														
95243.80c	240.9734	ENDF71x	ENDF/B-VII.1	2006	293.6	336656	27117	30.0	yes	both	no	yes	yes	
95243.81c	240.9734	ENDF71x	ENDF/B-VII.1	2006	600.0	286841	21582	30.0	yes	both	no	yes	yes	
95243.82c	240.9734	ENDF71x	ENDF/B-VII.1	2006	900.0	259265	18518	30.0	yes	both	no	yes	yes	
95243.83c	240.9734	ENDF71x	ENDF/B-VII.1	2006	1200.0	242912	16701	30.0	yes	both	no	yes	yes	
95243.84c	240.9734	ENDF71x	ENDF/B-VII.1	2006	2500.0	204932	12481	30.0	yes	both	no	yes	yes	
95243.85c	240.9734	ENDF71x	ENDF/B-VII.1	2006	0.1	549668	50785	30.0	yes	both	no	yes	yes	
95243.86c	240.9734	ENDF71x	ENDF/B-VII.1	2006	250.0	346691	28232	30.0	yes	both	no	yes	yes	
95243.70c	240.9734	endf70k	ENDF/B-VII.0	2006	293.6	337057	27240	30	yes	both	no	yes	yes	
95243.71c	240.9734	endf70k	ENDF/B-VII.0	2006	600	287665	21752	30	yes	both	no	yes	yes	
95243.72c	240.9734	endf70k	ENDF/B-VII.0	2006	900	260188	18699	30	yes	both	no	yes	yes	
95243.73c	240.9734	endf70k	ENDF/B-VII.0	2006	1200	243495	16843	30	yes	both	no	yes	yes	
95243.74c	240.9734	endf70k	ENDF/B-VII.0	2006	2500	205054	12573	30	yes	both	no	yes	yes	
95243.69c	240.9734	t16_2003	ENDF/B-VI.5	1996	293.6	308812	26772	30	yes	both	no	yes	yes	
95243.68c	240.9734	t16_2003	ENDF/B-VI.5	1996	3000	160276	10268	30	yes	both	no	yes	yes	
95243.66c	240.9734	endf66c	ENDF/B-VI.5	1996	293.6	308812	26772	30	yes	both	no	yes	yes	
95243.65c	240.9734	endf66e	ENDF/B-VI.5	1996	3000.1	160276	10268	30	yes	both	no	yes	yes	
95243.60c	240.973	endf60	ENDF/B-VI.0	1988	293.6	104257	11984	20	yes	both	no	no	no	
95243.61c	240.973	endf6dn	ENDF/B-VI.0	1988	293.6	109155	11984	20	yes	both	no	yes	no	
95243.51c	240.973	rmccs	ENDF/B-V.0	1978	293.6	13684	757	20	yes	tot	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
95243.50c	240.973	endf5u	ENDF/B-V.0	1978	293.6	92015	11921	20	yes	tot	no	no	no	
95243.42c	240.9733	endl92	LLNL	<1992	300	52074	4867	30	yes	both	no	no	no	
95243.710nc	240.9734	ENDF71x	ENDF/B-VII.1	2006	293.6	336656	27117	30.0	yes	both	no	yes	yes	
95243.711nc	240.9734	ENDF71x	ENDF/B-VII.1	2006	600.0	286841	21582	30.0	yes	both	no	yes	yes	
95243.712nc	240.9734	ENDF71x	ENDF/B-VII.1	2006	900.0	259265	18518	30.0	yes	both	no	yes	yes	
95243.713nc	240.9734	ENDF71x	ENDF/B-VII.1	2006	1200.0	242912	16701	30.0	yes	both	no	yes	yes	
95243.714nc	240.9734	ENDF71x	ENDF/B-VII.1	2006	2500.0	204932	12481	30.0	yes	both	no	yes	yes	
95243.715nc	240.9734	ENDF71x	ENDF/B-VII.1	2006	0.1	549668	50785	30.0	yes	both	no	yes	yes	
95243.716nc	240.9734	ENDF71x	ENDF/B-VII.1	2006	250.0	346691	28232	30.0	yes	both	no	yes	yes	
Am-244														
95244.80c	241.968	ENDF71x	ENDF/B-VII.1	1988	293.6	32164	1043	20.0	no	both	no	no	no	
95244.81c	241.968	ENDF71x	ENDF/B-VII.1	1988	600.0	32156	1042	20.0	no	both	no	no	no	
95244.82c	241.968	ENDF71x	ENDF/B-VII.1	1988	900.0	32124	1038	20.0	no	both	no	no	no	
95244.83c	241.968	ENDF71x	ENDF/B-VII.1	1988	1200.0	32100	1035	20.0	no	both	no	no	no	
95244.84c	241.968	ENDF71x	ENDF/B-VII.1	1988	2500.0	32076	1032	20.0	no	both	no	no	no	
95244.85c	241.968	ENDF71x	ENDF/B-VII.1	1988	0.1	32284	1058	20.0	no	both	no	no	no	
95244.86c	241.968	ENDF71x	ENDF/B-VII.1	1988	250.0	32164	1043	20.0	no	both	no	no	no	
95244.70c	241.968	endf70k	ENDF/B-VII.0	1988	293.6	32164	1043	20	no	both	no	no	no	
95244.71c	241.968	endf70k	ENDF/B-VII.0	1988	600	32156	1042	20	no	both	no	no	no	
95244.72c	241.968	endf70k	ENDF/B-VII.0	1988	900	32124	1038	20	no	both	no	no	no	
95244.73c	241.968	endf70k	ENDF/B-VII.0	1988	1200	32100	1035	20	no	both	no	no	no	
95244.74c	241.968	endf70k	ENDF/B-VII.0	1988	2500	32076	1032	20	no	both	no	no	no	
95244.710nc	241.968	ENDF71x	ENDF/B-VII.1	1988	293.6	32164	1043	20.0	no	both	no	no	no	
95244.711nc	241.968	ENDF71x	ENDF/B-VII.1	1988	600.0	32156	1042	20.0	no	both	no	no	no	
95244.712nc	241.968	ENDF71x	ENDF/B-VII.1	1988	900.0	32124	1038	20.0	no	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
95244.713nc	241.968	ENDF71x	ENDF/B-VII.1	1988	1200.0	32100	1035	20.0	no	both	no	no	no	
95244.714nc	241.968	ENDF71x	ENDF/B-VII.1	1988	2500.0	32076	1032	20.0	no	both	no	no	no	
95244.715nc	241.968	ENDF71x	ENDF/B-VII.1	1988	0.1	32284	1058	20.0	no	both	no	no	no	
95244.716nc	241.968	ENDF71x	ENDF/B-VII.1	1988	250.0	32164	1043	20.0	no	both	no	no	no	
Am-642														
95642.80c	239.9801	ENDF71x	ENDF/B-VII.1	2004	293.6	165026	6161	20.0	no	both	no	no	yes	
95642.81c	239.9801	ENDF71x	ENDF/B-VII.1	2004	600.0	160954	5652	20.0	no	both	no	no	yes	
95642.82c	239.9801	ENDF71x	ENDF/B-VII.1	2004	900.0	157810	5259	20.0	no	both	no	no	yes	
95642.83c	239.9801	ENDF71x	ENDF/B-VII.1	2004	1200.0	155866	5016	20.0	no	both	no	no	yes	
95642.84c	239.9801	ENDF71x	ENDF/B-VII.1	2004	2500.0	150402	4333	20.0	no	both	no	no	yes	
95642.85c	239.9801	ENDF71x	ENDF/B-VII.1	2004	0.1	176554	7602	20.0	no	both	no	no	yes	
95642.86c	239.9801	ENDF71x	ENDF/B-VII.1	2004	250.0	166082	6293	20.0	no	both	no	no	yes	
95642.70c	239.9801	endf70k	ENDF/B-VII.0:x	2004	293.6	164044	6232	20	no	both	no	no	yes	
95642.71c	239.9801	endf70k	ENDF/B-VII.0:x	2004	600	159972	5723	20	no	both	no	no	yes	
95642.72c	239.9801	endf70k	ENDF/B-VII.0:x	2004	900	156828	5330	20	no	both	no	no	yes	
95642.73c	239.9801	endf70k	ENDF/B-VII.0:x	2004	1200	154884	5087	20	no	both	no	no	yes	
95642.74c	239.9801	endf70k	ENDF/B-VII.0:x	2004	2500	149420	4404	20	no	both	no	no	yes	
Am-644														
95644.80c	241.968	ENDF71x	ENDF/B-VII.1	1988	293.6	34559	1110	20.0	no	both	no	no	no	
95644.81c	241.968	ENDF71x	ENDF/B-VII.1	1988	600.0	34567	1111	20.0	no	both	no	no	no	
95644.82c	241.968	ENDF71x	ENDF/B-VII.1	1988	900.0	34487	1101	20.0	no	both	no	no	no	
95644.83c	241.968	ENDF71x	ENDF/B-VII.1	1988	1200.0	34479	1100	20.0	no	both	no	no	no	
95644.84c	241.968	ENDF71x	ENDF/B-VII.1	1988	2500.0	34455	1097	20.0	no	both	no	no	no	
95644.85c	241.968	ENDF71x	ENDF/B-VII.1	1988	0.1	34655	1122	20.0	no	both	no	no	no	
95644.86c	241.968	ENDF71x	ENDF/B-VII.1	1988	250.0	34575	1112	20.0	no	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
95644.70c	241.968	endf70k	ENDF/B-VII.0	1988	293.6	34559	1110	20	no	both	no	no	no	
95644.71c	241.968	endf70k	ENDF/B-VII.0	1988	600	34567	1111	20	no	both	no	no	no	
95644.72c	241.968	endf70k	ENDF/B-VII.0	1988	900	34487	1101	20	no	both	no	no	no	
95644.73c	241.968	endf70k	ENDF/B-VII.0	1988	1200	34479	1100	20	no	both	no	no	no	
95644.74c	241.968	endf70k	ENDF/B-VII.0	1988	2500	34455	1097	20	no	both	no	no	no	
						Z = 96, curium								
Cm-240														
96240.80c	237.993	ENDF71x	ENDF/B-VII.1	2011	293.6	168408	791	20.0	yes	both	no	no	no	
96240.81c	237.993	ENDF71x	ENDF/B-VII.1	2011	600.0	168408	791	20.0	yes	both	no	no	no	
96240.82c	237.993	ENDF71x	ENDF/B-VII.1	2011	900.0	168363	786	20.0	yes	both	no	no	no	
96240.83c	237.993	ENDF71x	ENDF/B-VII.1	2011	1200.0	168381	788	20.0	yes	both	no	no	no	
96240.84c	237.993	ENDF71x	ENDF/B-VII.1	2011	2500.0	168390	789	20.0	yes	both	no	no	no	
96240.85c	237.993	ENDF71x	ENDF/B-VII.1	2011	0.1	168363	786	20.0	yes	both	no	no	no	
96240.86c	237.993	ENDF71x	ENDF/B-VII.1	2011	250.0	168390	789	20.0	yes	both	no	no	no	
96240.710nc	237.993	ENDF71x	ENDF/B-VII.1	2011	293.6	168408	791	20.0	yes	both	no	no	no	
96240.711nc	237.993	ENDF71x	ENDF/B-VII.1	2011	600.0	168408	791	20.0	yes	both	no	no	no	
96240.712nc	237.993	ENDF71x	ENDF/B-VII.1	2011	900.0	168363	786	20.0	yes	both	no	no	no	
96240.713nc	237.993	ENDF71x	ENDF/B-VII.1	2011	1200.0	168381	788	20.0	yes	both	no	no	no	
96240.714nc	237.993	ENDF71x	ENDF/B-VII.1	2011	2500.0	168390	789	20.0	yes	both	no	no	no	
96240.715nc	237.993	ENDF71x	ENDF/B-VII.1	2011	0.1	168363	786	20.0	yes	both	no	no	no	
96240.716nc	237.993	ENDF71x	ENDF/B-VII.1	2011	250.0	168390	789	20.0	yes	both	no	no	no	
Cm-241														
96241.80c	238.987	ENDF71x	ENDF/B-VII.1	2011	293.6	178699	742	20.0	yes	both	no	no	no	
96241.81c	238.987	ENDF71x	ENDF/B-VII.1	2011	600.0	178708	743	20.0	yes	both	no	no	no	
96241.82c	238.987	ENDF71x	ENDF/B-VII.1	2011	900.0	178672	739	20.0	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
96241.83c	238.987	ENDF71x	ENDF/B-VII.1	2011	1200.0	178690	741	20.0	yes	both	no	no	no	
96241.84c	238.987	ENDF71x	ENDF/B-VII.1	2011	2500.0	178699	742	20.0	yes	both	no	no	no	
96241.85c	238.987	ENDF71x	ENDF/B-VII.1	2011	0.1	178708	743	20.0	yes	both	no	no	no	
96241.86c	238.987	ENDF71x	ENDF/B-VII.1	2011	250.0	178690	741	20.0	yes	both	no	no	no	
96241.70c	238.987	endf70k	ENDF/B-VII.0	1978	293.6	9515	598	20	no	tot	no	no	no	
96241.71c	238.987	endf70k	ENDF/B-VII.0	1978	600	9515	598	20	no	tot	no	no	no	
96241.72c	238.987	endf70k	ENDF/B-VII.0	1978	900	9515	598	20	no	tot	no	no	no	
96241.73c	238.987	endf70k	ENDF/B-VII.0	1978	1200	9515	598	20	no	tot	no	no	no	
96241.74c	238.987	endf70k	ENDF/B-VII.0	1978	2500	9515	598	20	no	tot	no	no	no	
96241.66c	238.987	endf66c	ENDF/B-VI.0	1978	293.6	9515	598	20	no	tot	no	no	no	
96241.60c	238.987	endf60	ENDF/B-VI.0	1978	293.6	3132	278	20	no	tot	no	no	no	
96241.710nc	238.987	ENDF71x	ENDF/B-VII.1	2011	293.6	178699	742	20.0	yes	both	no	no	no	
96241.711nc	238.987	ENDF71x	ENDF/B-VII.1	2011	600.0	178708	743	20.0	yes	both	no	no	no	
96241.712nc	238.987	ENDF71x	ENDF/B-VII.1	2011	900.0	178672	739	20.0	yes	both	no	no	no	
96241.713nc	238.987	ENDF71x	ENDF/B-VII.1	2011	1200.0	178690	741	20.0	yes	both	no	no	no	
96241.714nc	238.987	ENDF71x	ENDF/B-VII.1	2011	2500.0	178699	742	20.0	yes	both	no	no	no	
96241.715nc	238.987	ENDF71x	ENDF/B-VII.1	2011	0.1	178708	743	20.0	yes	both	no	no	no	
96241.716nc	238.987	ENDF71x	ENDF/B-VII.1	2011	250.0	178690	741	20.0	yes	both	no	no	no	
Cm-242														
96242.80c	239.979	ENDF71x	ENDF/B-VII.1	2010	293.6	209279	5320	20.0	yes	both	no	yes	yes	
96242.81c	239.979	ENDF71x	ENDF/B-VII.1	2010	600.0	207380	5109	20.0	yes	both	no	yes	yes	
96242.82c	239.979	ENDF71x	ENDF/B-VII.1	2010	900.0	205652	4917	20.0	yes	both	no	yes	yes	
96242.83c	239.979	ENDF71x	ENDF/B-VII.1	2010	1200.0	204950	4839	20.0	yes	both	no	yes	yes	
96242.84c	239.979	ENDF71x	ENDF/B-VII.1	2010	2500.0	202727	4592	20.0	yes	both	no	yes	yes	
96242.85c	239.979	ENDF71x	ENDF/B-VII.1	2010	0.1	219782	6487	20.0	yes	both	no	yes	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
96242.86c	239.979	ENDF71x	ENDF/B-VII.1	2010	250.0	209918	5391	20.0	yes	both	no	yes	yes	
96242.70c	239.979	endf70k	ENDF/B-VII.0	1979	293.6	67939	5374	20	yes	both	no	yes	yes	
96242.71c	239.979	endf70k	ENDF/B-VII.0	1979	600	65707	5126	20	yes	both	no	yes	yes	
96242.72c	239.979	endf70k	ENDF/B-VII.0	1979	900	64843	5030	20	yes	both	no	yes	yes	
96242.73c	239.979	endf70k	ENDF/B-VII.0	1979	1200	63367	4866	20	yes	both	no	yes	yes	
96242.74c	239.979	endf70k	ENDF/B-VII.0	1979	2500	61801	4692	20	yes	both	no	yes	yes	
96242.66c	239.979	endf66c	ENDF/B-VI.0	1978	293.6	62059	5248	20	yes	both	no	yes	yes	
96242.65c	239.979	endf66e	ENDF/B-VI.0	1978	3000.1	54517	4410	20	yes	both	no	yes	yes	
96242.60c	239.979	endf60	ENDF/B-VI.0	1978	293.6	34374	3544	20	yes	both	no	no	no	
96242.61c	239.979	endf6dn	ENDF/B-VI.0	1978	293.6	39269	3544	20	yes	both	no	yes	no	
96242.51c	239.979	rmccs	ENDF/B-V.0	1978	293.6	9767	472	20	yes	tot	no	no	no	
96242.50c	239.979	endf5u	ENDF/B-V.0	1978	293.6	30897	3113	20	yes	tot	no	no	no	
96242.42c	239.9794	endl92	LLNL	<1992	300	37766	3141	30	yes	both	no	no	no	
96242.710nc	239.979	ENDF71x	ENDF/B-VII.1	2010	293.6	209279	5320	20.0	yes	both	no	yes	yes	
96242.711nc	239.979	ENDF71x	ENDF/B-VII.1	2010	600.0	207380	5109	20.0	yes	both	no	yes	yes	
96242.712nc	239.979	ENDF71x	ENDF/B-VII.1	2010	900.0	205652	4917	20.0	yes	both	no	yes	yes	
96242.713nc	239.979	ENDF71x	ENDF/B-VII.1	2010	1200.0	204950	4839	20.0	yes	both	no	yes	yes	
96242.714nc	239.979	ENDF71x	ENDF/B-VII.1	2010	2500.0	202727	4592	20.0	yes	both	no	yes	yes	
96242.715nc	239.979	ENDF71x	ENDF/B-VII.1	2010	0.1	219782	6487	20.0	yes	both	no	yes	yes	
96242.716nc	239.979	ENDF71x	ENDF/B-VII.1	2010	250.0	209918	5391	20.0	yes	both	no	yes	yes	
Cm-243														
96243.80c	240.973	ENDF71x	ENDF/B-VII.1	2010	293.6	214372	6374	20.0	yes	both	no	no	yes	
96243.81c	240.973	ENDF71x	ENDF/B-VII.1	2010	600.0	209692	5854	20.0	yes	both	no	no	yes	
96243.82c	240.973	ENDF71x	ENDF/B-VII.1	2010	900.0	206173	5463	20.0	yes	both	no	no	yes	
96243.83c	240.973	ENDF71x	ENDF/B-VII.1	2010	1200.0	203923	5213	20.0	yes	both	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
96243.84c	240.973	ENDF71x	ENDF/B-VII.1	2010	2500.0	196606	4400	20.0	yes	both	no	no	yes	
96243.85c	240.973	ENDF71x	ENDF/B-VII.1	2010	0.1	225460	7606	20.0	yes	both	no	no	yes	
96243.86c	240.973	ENDF71x	ENDF/B-VII.1	2010	250.0	215344	6482	20.0	yes	both	no	no	yes	
96243.70c	240.973	endf70k	ENDF/B-VII.0	1995	293.6	70848	6575	20	no	both	no	no	yes	
96243.71c	240.973	endf70k	ENDF/B-VII.0	1995	600	66680	6054	20	no	both	no	no	yes	
96243.72c	240.973	endf70k	ENDF/B-VII.0	1995	900	63792	5693	20	no	both	no	no	yes	
96243.73c	240.973	endf70k	ENDF/B-VII.0	1995	1200	61104	5357	20	no	both	no	no	yes	
96243.74c	240.973	endf70k	ENDF/B-VII.0	1995	2500	54688	4555	20	no	both	no	no	yes	
96243.66c	240.973	endf66c	ENDF/B-VI.0	1978	293.6	32793	2298	20	yes	tot	no	no	yes	
96243.65c	240.973	endf66e	ENDF/B-VI.0	1978	3000.1	29796	1965	20	yes	tot	no	no	yes	
96243.60c	240.973	endf60	ENDF/B-VI.0	1978	293.6	18860	1445	20	yes	tot	no	no	no	
96243.42c	240.9733	endl92	LLNL	<1992	300	21543	1099	30	yes	both	no	no	no	
96243.710nc	240.973	ENDF71x	ENDF/B-VII.1	2010	293.6	214372	6374	20.0	yes	both	no	no	yes	
96243.711nc	240.973	ENDF71x	ENDF/B-VII.1	2010	600.0	209692	5854	20.0	yes	both	no	no	yes	
96243.712nc	240.973	ENDF71x	ENDF/B-VII.1	2010	900.0	206173	5463	20.0	yes	both	no	no	yes	
96243.713nc	240.973	ENDF71x	ENDF/B-VII.1	2010	1200.0	203923	5213	20.0	yes	both	no	no	yes	
96243.714nc	240.973	ENDF71x	ENDF/B-VII.1	2010	2500.0	196606	4400	20.0	yes	both	no	no	yes	
96243.715nc	240.973	ENDF71x	ENDF/B-VII.1	2010	0.1	225460	7606	20.0	yes	both	no	no	yes	
96243.716nc	240.973	ENDF71x	ENDF/B-VII.1	2010	250.0	215344	6482	20.0	yes	both	no	no	yes	
Cm-244														
96244.80c	241.966	ENDF71x	ENDF/B-VII.1	2010	293.6	339389	18866	20.0	yes	both	no	no	yes	
96244.81c	241.966	ENDF71x	ENDF/B-VII.1	2010	600.0	327140	17505	20.0	yes	both	no	no	yes	
96244.82c	241.966	ENDF71x	ENDF/B-VII.1	2010	900.0	320381	16754	20.0	yes	both	no	no	yes	
96244.83c	241.966	ENDF71x	ENDF/B-VII.1	2010	1200.0	316538	16327	20.0	yes	both	no	no	yes	
96244.84c	241.966	ENDF71x	ENDF/B-VII.1	2010	2500.0	303875	14920	20.0	yes	both	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
96244.85c	241.966	ENDF71x	ENDF/B-VII.1	2010	0.1	408257	26518	20.0	yes	both	no	no	yes	
96244.86c	241.966	ENDF71x	ENDF/B-VII.1	2010	250.0	342062	19163	20.0	yes	both	no	no	yes	
96244.70c	241.966	endf70k	ENDF/B-VII.0	2000	293.6	171323	19049	20	no	both	no	no	yes	
96244.71c	241.966	endf70k	ENDF/B-VII.0	2000	600	159995	17633	20	no	both	no	no	yes	
96244.72c	241.966	endf70k	ENDF/B-VII.0	2000	900	154883	16994	20	no	both	no	no	yes	
96244.73c	241.966	endf70k	ENDF/B-VII.0	2000	1200	151275	16543	20	no	both	no	no	yes	
96244.74c	241.966	endf70k	ENDF/B-VII.0	2000	2500	139731	15100	20	no	both	no	no	yes	
96244.66c	241.966	endf66c	ENDF/B-VI.0	1978	293.6	116265	11627	20	yes	tot	no	no	yes	
96244.65c	241.966	endf66e	ENDF/B-VI.0	1978	3000.1	91371	8861	20	yes	tot	no	no	yes	
96244.60c	241.966	endf60	ENDF/B-VI.0	1978	293.6	73001	8294	20	yes	tot	no	no	no	
96244.49c	241.966	uresa	ENDF/B-VI.0	1978	300	97975	11389	20	yes	pr	no	no	yes	
96244.51c	241.966	rmccs	ENDF/B-V.0	1978	293.6	10847	566	20	yes	tot	no	no	no	
96244.50c	241.966	endf5u	ENDF/B-V.0	1978	293.6	45991	4919	20	yes	tot	no	no	no	
96244.42c	241.9661	endl92	LLNL	<1992	300	46590	4198	30	yes	both	no	no	no	
96244.710nc	241.966	ENDF71x	ENDF/B-VII.1	2010	293.6	339389	18866	20.0	yes	both	no	no	yes	
96244.711nc	241.966	ENDF71x	ENDF/B-VII.1	2010	600.0	327140	17505	20.0	yes	both	no	no	yes	
96244.712nc	241.966	ENDF71x	ENDF/B-VII.1	2010	900.0	320381	16754	20.0	yes	both	no	no	yes	
96244.713nc	241.966	ENDF71x	ENDF/B-VII.1	2010	1200.0	316538	16327	20.0	yes	both	no	no	yes	
96244.714nc	241.966	ENDF71x	ENDF/B-VII.1	2010	2500.0	303875	14920	20.0	yes	both	no	no	yes	
96244.715nc	241.966	ENDF71x	ENDF/B-VII.1	2010	0.1	408257	26518	20.0	yes	both	no	no	yes	
96244.716nc	241.966	ENDF71x	ENDF/B-VII.1	2010	250.0	342062	19163	20.0	yes	both	no	no	yes	
Cm-245														
96245.80c	242.96	ENDF71x	ENDF/B-VII.1	2010	293.6	271646	5134	20.0	yes	both	no	yes	yes	
96245.81c	242.96	ENDF71x	ENDF/B-VII.1	2010	600.0	268325	4765	20.0	yes	both	no	yes	yes	
96245.82c	242.96	ENDF71x	ENDF/B-VII.1	2010	900.0	266462	4558	20.0	yes	both	no	yes	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
96245.83c	242.96	ENDF71x	ENDF/B-VII.1	2010	1200.0	265391	4439	20.0	yes	both	no	yes	yes	
96245.84c	242.96	ENDF71x	ENDF/B-VII.1	2010	2500.0	261332	3988	20.0	yes	both	no	yes	yes	
96245.85c	242.96	ENDF71x	ENDF/B-VII.1	2010	0.1	277055	5735	20.0	yes	both	no	yes	yes	
96245.86c	242.96	ENDF71x	ENDF/B-VII.1	2010	250.0	272078	5182	20.0	yes	both	no	yes	yes	
96245.70c	242.96	endf70k	ENDF/B-VII.0	2000	293.6	76955	5022	20	no	both	no	yes	yes	
96245.71c	242.96	endf70k	ENDF/B-VII.0	2000	600	73963	4648	20	no	both	no	yes	yes	
96245.72c	242.96	endf70k	ENDF/B-VII.0	2000	900	72323	4443	20	no	both	no	yes	yes	
96245.73c	242.96	endf70k	ENDF/B-VII.0	2000	1200	71403	4328	20	no	both	no	yes	yes	
96245.74c	242.96	endf70k	ENDF/B-VII.0	2000	2500	67699	3865	20	no	both	no	yes	yes	
96245.66c	242.96	endf66c	ENDF/B-VI.2	1979	293.6	52336	4038	20	yes	both	no	yes	yes	
96245.65c	242.96	endf66e	ENDF/B-VI.2	1979	3000.1	44920	3214	20	yes	both	no	yes	yes	
96245.60c	242.96	endf60	ENDF/B-VI.2	1979	293.6	29535	2636	20	yes	both	no	no	no	
96245.61c	242.96	endf6dn	ENDF/B-VI.2	1979	293.6	34433	2636	20	yes	both	no	yes	no	
96245.42c	242.9602	endl92	LLNL	<1992	300	25678	1564	30	yes	both	no	no	no	
96245.710nc	242.96	ENDF71x	ENDF/B-VII.1	2010	293.6	271646	5134	20.0	yes	both	no	yes	yes	
96245.711nc	242.96	ENDF71x	ENDF/B-VII.1	2010	600.0	268325	4765	20.0	yes	both	no	yes	yes	
96245.712nc	242.96	ENDF71x	ENDF/B-VII.1	2010	900.0	266462	4558	20.0	yes	both	no	yes	yes	
96245.713nc	242.96	ENDF71x	ENDF/B-VII.1	2010	1200.0	265391	4439	20.0	yes	both	no	yes	yes	
96245.714nc	242.96	ENDF71x	ENDF/B-VII.1	2010	2500.0	261332	3988	20.0	yes	both	no	yes	yes	
96245.715nc	242.96	ENDF71x	ENDF/B-VII.1	2010	0.1	277055	5735	20.0	yes	both	no	yes	yes	
96245.716nc	242.96	ENDF71x	ENDF/B-VII.1	2010	250.0	272078	5182	20.0	yes	both	no	yes	yes	
Cm-246														
96246.80c	243.953	ENDF71x	ENDF/B-VII.1	2010	293.6	308580	7014	20.0	yes	both	no	no	yes	
96246.81c	243.953	ENDF71x	ENDF/B-VII.1	2010	600.0	306312	6762	20.0	yes	both	no	no	yes	
96246.82c	243.953	ENDF71x	ENDF/B-VII.1	2010	900.0	303810	6484	20.0	yes	both	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
96246.83c	243.953	ENDF71x	ENDF/B-VII.1	2010	1200.0	302856	6378	20.0	yes	both	no	no	yes	
96246.84c	243.953	ENDF71x	ENDF/B-VII.1	2010	2500.0	299751	6033	20.0	yes	both	no	no	yes	
96246.85c	243.953	ENDF71x	ENDF/B-VII.1	2010	0.1	324672	8802	20.0	yes	both	no	no	yes	
96246.86c	243.953	ENDF71x	ENDF/B-VII.1	2010	250.0	309336	7098	20.0	yes	both	no	no	yes	
96246.70c	243.953	endf70k	ENDF/B-VII.0	1995	293.6	84008	6936	20	no	both	no	no	yes	
96246.71c	243.953	endf70k	ENDF/B-VII.0	1995	600	81920	6675	20	no	both	no	no	yes	
96246.72c	243.953	endf70k	ENDF/B-VII.0	1995	900	79936	6427	20	no	both	no	no	yes	
96246.73c	243.953	endf70k	ENDF/B-VII.0	1995	1200	78776	6282	20	no	both	no	no	yes	
96246.74c	243.953	endf70k	ENDF/B-VII.0	1995	2500	75880	5920	20	no	both	no	no	yes	
96246.66c	243.953	endf66c	ENDF/B-VI.2	1976	293.6	56186	4704	20	yes	tot	no	no	no	
96246.60c	243.953	endf60	ENDF/B-VI.2	1976	293.6	37948	3311	20	yes	tot	no	no	no	
96246.42c	243.9534	endl92	LLNL	<1992	300	24550	1376	30	yes	both	no	no	no	
96246.710nc	243.953	ENDF71x	ENDF/B-VII.1	2010	293.6	308580	7014	20.0	yes	both	no	no	yes	
96246.711nc	243.953	ENDF71x	ENDF/B-VII.1	2010	600.0	306312	6762	20.0	yes	both	no	no	yes	
96246.712nc	243.953	ENDF71x	ENDF/B-VII.1	2010	900.0	303810	6484	20.0	yes	both	no	no	yes	
96246.713nc	243.953	ENDF71x	ENDF/B-VII.1	2010	1200.0	302856	6378	20.0	yes	both	no	no	yes	
96246.714nc	243.953	ENDF71x	ENDF/B-VII.1	2010	2500.0	299751	6033	20.0	yes	both	no	no	yes	
96246.715nc	243.953	ENDF71x	ENDF/B-VII.1	2010	0.1	324672	8802	20.0	yes	both	no	no	yes	
96246.716nc	243.953	ENDF71x	ENDF/B-VII.1	2010	250.0	309336	7098	20.0	yes	both	no	no	yes	
Cm-247														
96247.80c	244.948	ENDF71x	ENDF/B-VII.1	2010	293.6	279740	5884	20.0	yes	both	no	no	yes	
96247.81c	244.948	ENDF71x	ENDF/B-VII.1	2010	600.0	275006	5358	20.0	yes	both	no	no	yes	
96247.82c	244.948	ENDF71x	ENDF/B-VII.1	2010	900.0	272927	5127	20.0	yes	both	no	no	yes	
96247.83c	244.948	ENDF71x	ENDF/B-VII.1	2010	1200.0	270740	4884	20.0	yes	both	no	no	yes	
96247.84c	244.948	ENDF71x	ENDF/B-VII.1	2010	2500.0	265223	4271	20.0	yes	both	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
96247.85c	244.948	ENDF71x	ENDF/B-VII.1	2010	0.1	291305	7169	20.0	yes	both	no	no	yes	
96247.86c	244.948	ENDF71x	ENDF/B-VII.1	2010	250.0	280541	5973	20.0	yes	both	no	no	yes	
96247.70c	244.948	endf70k	ENDF/B-VII.0	2005	293.6	62874	5885	20	no	both	no	no	yes	
96247.71c	244.948	endf70k	ENDF/B-VII.0	2005	600	58098	5288	20	no	both	no	no	yes	
96247.72c	244.948	endf70k	ENDF/B-VII.0	2005	900	55946	5019	20	no	both	no	no	yes	
96247.73c	244.948	endf70k	ENDF/B-VII.0	2005	1200	54154	4795	20	no	both	no	no	yes	
96247.74c	244.948	endf70k	ENDF/B-VII.0	2005	2500	49122	4166	20	no	both	no	no	yes	
96247.66c	244.95	endf66c	ENDF/B-VI.2	1976	293.6	64799	5499	20	yes	tot	no	no	yes	
96247.65c	244.95	endf66e	ENDF/B-VI.2	1976	3000.1	49949	3849	20	yes	tot	no	no	yes	
96247.60c	244.95	endf60	ENDF/B-VI.2	1976	293.6	38800	3679	20	yes	tot	no	no	no	
96247.42c	244.9479	endl92	LLNL	<1992	300	39971	3256	30	yes	both	no	no	no	
96247.710nc	244.948	ENDF71x	ENDF/B-VII.1	2010	293.6	279740	5884	20.0	yes	both	no	no	yes	
96247.711nc	244.948	ENDF71x	ENDF/B-VII.1	2010	600.0	275006	5358	20.0	yes	both	no	no	yes	
96247.712nc	244.948	ENDF71x	ENDF/B-VII.1	2010	900.0	272927	5127	20.0	yes	both	no	no	yes	
96247.713nc	244.948	ENDF71x	ENDF/B-VII.1	2010	1200.0	270740	4884	20.0	yes	both	no	no	yes	
96247.714nc	244.948	ENDF71x	ENDF/B-VII.1	2010	2500.0	265223	4271	20.0	yes	both	no	no	yes	
96247.715nc	244.948	ENDF71x	ENDF/B-VII.1	2010	0.1	291305	7169	20.0	yes	both	no	no	yes	
96247.716nc	244.948	ENDF71x	ENDF/B-VII.1	2010	250.0	280541	5973	20.0	yes	both	no	no	yes	
Cm-248														
96248.80c	245.941	ENDF71x	ENDF/B-VII.1	2010	293.6	282515	11585	20.0	yes	both	no	no	yes	
96248.81c	245.941	ENDF71x	ENDF/B-VII.1	2010	600.0	276917	10963	20.0	yes	both	no	no	yes	
96248.82c	245.941	ENDF71x	ENDF/B-VII.1	2010	900.0	272993	10527	20.0	yes	both	no	no	yes	
96248.83c	245.941	ENDF71x	ENDF/B-VII.1	2010	1200.0	269987	10193	20.0	yes	both	no	no	yes	
96248.84c	245.941	ENDF71x	ENDF/B-VII.1	2010	2500.0	263975	9525	20.0	yes	both	no	no	yes	
96248.85c	245.941	ENDF71x	ENDF/B-VII.1	2010	0.1	316445	15355	20.0	yes	both	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
96248.86c	245.941	ENDF71x	ENDF/B-VII.1	2010	250.0	283469	11691	20.0	yes	both	no	no	yes	
96248.70c	245.941	endf70k	ENDF/B-VII.0	1978	293.6	141494	14767	20	yes	tot	no	no	yes	
96248.71c	245.941	endf70k	ENDF/B-VII.0	1978	600	133619	13892	20	yes	tot	no	no	yes	
96248.72c	245.941	endf70k	ENDF/B-VII.0	1978	900	128129	13282	20	yes	tot	no	no	yes	
96248.73c	245.941	endf70k	ENDF/B-VII.0	1978	1200	124655	12896	20	yes	tot	no	no	yes	
96248.74c	245.941	endf70k	ENDF/B-VII.0	1978	2500	116852	12029	20	yes	tot	no	no	yes	
96248.66c	245.941	endf66c	ENDF/B-VI.0	1978	293.6	130361	13530	20	yes	tot	no	no	yes	
96248.65c	245.941	endf66e	ENDF/B-VI.0	1978	3000.1	102038	10383	20	yes	tot	no	no	yes	
96248.60c	245.941	endf60	ENDF/B-VI.0	1978	293.6	83452	9706	20	yes	tot	no	no	no	
96248.42c	245.9413	endl92	LLNL	<1992	300	40345	3355	30	yes	both	no	no	no	
96248.710nc	245.941	ENDF71x	ENDF/B-VII.1	2010	293.6	282515	11585	20.0	yes	both	no	no	yes	
96248.711nc	245.941	ENDF71x	ENDF/B-VII.1	2010	600.0	276917	10963	20.0	yes	both	no	no	yes	
96248.712nc	245.941	ENDF71x	ENDF/B-VII.1	2010	900.0	272993	10527	20.0	yes	both	no	no	yes	
96248.713nc	245.941	ENDF71x	ENDF/B-VII.1	2010	1200.0	269987	10193	20.0	yes	both	no	no	yes	
96248.714nc	245.941	ENDF71x	ENDF/B-VII.1	2010	2500.0	263975	9525	20.0	yes	both	no	no	yes	
96248.715nc	245.941	ENDF71x	ENDF/B-VII.1	2010	0.1	316445	15355	20.0	yes	both	no	no	yes	
96248.716nc	245.941	ENDF71x	ENDF/B-VII.1	2010	250.0	283469	11691	20.0	yes	both	no	no	yes	
Cm-249														
96249.80c	246.936	ENDF71x	ENDF/B-VII.1	2010	293.6	212937	840	20.0	yes	both	no	no	no	
96249.81c	246.936	ENDF71x	ENDF/B-VII.1	2010	600.0	213054	853	20.0	yes	both	no	no	no	
96249.82c	246.936	ENDF71x	ENDF/B-VII.1	2010	900.0	213045	852	20.0	yes	both	no	no	no	
96249.83c	246.936	ENDF71x	ENDF/B-VII.1	2010	1200.0	212928	839	20.0	yes	both	no	no	no	
96249.84c	246.936	ENDF71x	ENDF/B-VII.1	2010	2500.0	213036	851	20.0	yes	both	no	no	no	
96249.85c	246.936	ENDF71x	ENDF/B-VII.1	2010	0.1	212739	818	20.0	yes	both	no	no	no	
96249.86c	246.936	ENDF71x	ENDF/B-VII.1	2010	250.0	213009	848	20.0	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
96249.70c	246.936	endf70k	ENDF/B-VII.0	2006	293.6	56238	3572	20	no	both	no	no	yes	
96249.71c	246.936	endf70k	ENDF/B-VII.0	2006	600	55302	3455	20	no	both	no	no	yes	
96249.72c	246.936	endf70k	ENDF/B-VII.0	2006	900	54822	3395	20	no	both	no	no	yes	
96249.73c	246.936	endf70k	ENDF/B-VII.0	2006	1200	54254	3324	20	no	both	no	no	yes	
96249.74c	246.936	endf70k	ENDF/B-VII.0	2006	2500	53262	3200	20	no	both	no	no	yes	
96249.710nc	246.936	ENDF71x	ENDF/B-VII.1	2010	293.6	212937	840	20.0	yes	both	no	no	no	
96249.711nc	246.936	ENDF71x	ENDF/B-VII.1	2010	600.0	213054	853	20.0	yes	both	no	no	no	
96249.712nc	246.936	ENDF71x	ENDF/B-VII.1	2010	900.0	213045	852	20.0	yes	both	no	no	no	
96249.713nc	246.936	ENDF71x	ENDF/B-VII.1	2010	1200.0	212928	839	20.0	yes	both	no	no	no	
96249.714nc	246.936	ENDF71x	ENDF/B-VII.1	2010	2500.0	213036	851	20.0	yes	both	no	no	no	
96249.715nc	246.936	ENDF71x	ENDF/B-VII.1	2010	0.1	212739	818	20.0	yes	both	no	no	no	
96249.716nc	246.936	ENDF71x	ENDF/B-VII.1	2010	250.0	213009	848	20.0	yes	both	no	no	no	
Cm-250														
96250.80c	247.93	ENDF71x	ENDF/B-VII.1	2010	293.6	183620	3037	20.0	yes	both	no	no	yes	
96250.81c	247.93	ENDF71x	ENDF/B-VII.1	2010	600.0	183008	2969	20.0	yes	both	no	no	yes	
96250.82c	247.93	ENDF71x	ENDF/B-VII.1	2010	900.0	182522	2915	20.0	yes	both	no	no	yes	
96250.83c	247.93	ENDF71x	ENDF/B-VII.1	2010	1200.0	182027	2860	20.0	yes	both	no	no	yes	
96250.84c	247.93	ENDF71x	ENDF/B-VII.1	2010	2500.0	180884	2733	20.0	yes	both	no	no	yes	
96250.85c	247.93	ENDF71x	ENDF/B-VII.1	2010	0.1	187157	3430	20.0	yes	both	no	no	yes	
96250.86c	247.93	ENDF71x	ENDF/B-VII.1	2010	250.0	183863	3064	20.0	yes	both	no	no	yes	
96250.70c	247.93	endf70k	ENDF/B-VII.0	2000	293.6	27291	1441	20	no	both	no	no	yes	
96250.71c	247.93	endf70k	ENDF/B-VII.0	2000	600	27251	1436	20	no	both	no	no	yes	
96250.72c	247.93	endf70k	ENDF/B-VII.0	2000	900	27187	1428	20	no	both	no	no	yes	
96250.73c	247.93	endf70k	ENDF/B-VII.0	2000	1200	27091	1416	20	no	both	no	no	yes	
96250.74c	247.93	endf70k	ENDF/B-VII.0	2000	2500	26971	1401	20	no	both	no	no	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
96250.710nc	247.93	ENDF71x	ENDF/B-VII.1	2010	293.6	183620	3037	20.0	yes	both	no	no	yes	
96250.711nc	247.93	ENDF71x	ENDF/B-VII.1	2010	600.0	183008	2969	20.0	yes	both	no	no	yes	
96250.712nc	247.93	ENDF71x	ENDF/B-VII.1	2010	900.0	182522	2915	20.0	yes	both	no	no	yes	
96250.713nc	247.93	ENDF71x	ENDF/B-VII.1	2010	1200.0	182027	2860	20.0	yes	both	no	no	yes	
96250.714nc	247.93	ENDF71x	ENDF/B-VII.1	2010	2500.0	180884	2733	20.0	yes	both	no	no	yes	
96250.715nc	247.93	ENDF71x	ENDF/B-VII.1	2010	0.1	187157	3430	20.0	yes	both	no	no	yes	
96250.716nc	247.93	ENDF71x	ENDF/B-VII.1	2010	250.0	183863	3064	20.0	yes	both	no	no	yes	
				Z = 97, berkelium										
Bk-245														
97245.80c	242.961	ENDF71x	ENDF/B-VII.1	2010	293.6	221349	825	20.0	yes	both	no	no	no	
97245.81c	242.961	ENDF71x	ENDF/B-VII.1	2010	600.0	221223	811	20.0	yes	both	no	no	no	
97245.82c	242.961	ENDF71x	ENDF/B-VII.1	2010	900.0	221259	815	20.0	yes	both	no	no	no	
97245.83c	242.961	ENDF71x	ENDF/B-VII.1	2010	1200.0	221286	818	20.0	yes	both	no	no	no	
97245.84c	242.961	ENDF71x	ENDF/B-VII.1	2010	2500.0	221115	799	20.0	yes	both	no	no	no	
97245.85c	242.961	ENDF71x	ENDF/B-VII.1	2010	0.1	221277	817	20.0	yes	both	no	no	no	
97245.86c	242.961	ENDF71x	ENDF/B-VII.1	2010	250.0	221331	823	20.0	yes	both	no	no	no	
97245.710nc	242.961	ENDF71x	ENDF/B-VII.1	2010	293.6	221349	825	20.0	yes	both	no	no	no	
97245.711nc	242.961	ENDF71x	ENDF/B-VII.1	2010	600.0	221223	811	20.0	yes	both	no	no	no	
97245.712nc	242.961	ENDF71x	ENDF/B-VII.1	2010	900.0	221259	815	20.0	yes	both	no	no	no	
97245.713nc	242.961	ENDF71x	ENDF/B-VII.1	2010	1200.0	221286	818	20.0	yes	both	no	no	no	
97245.714nc	242.961	ENDF71x	ENDF/B-VII.1	2010	2500.0	221115	799	20.0	yes	both	no	no	no	
97245.715nc	242.961	ENDF71x	ENDF/B-VII.1	2010	0.1	221277	817	20.0	yes	both	no	no	no	
97245.716nc	242.961	ENDF71x	ENDF/B-VII.1	2010	250.0	221331	823	20.0	yes	both	no	no	no	
Bk-246														
97246.80c	243.955	ENDF71x	ENDF/B-VII.1	2010	293.6	226472	744	20.0	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
97246.81c	243.955	ENDF71x	ENDF/B-VII.1	2010	600.0	226445	741	20.0	yes	both	no	no	no	
97246.82c	243.955	ENDF71x	ENDF/B-VII.1	2010	900.0	226436	740	20.0	yes	both	no	no	no	
97246.83c	243.955	ENDF71x	ENDF/B-VII.1	2010	1200.0	226445	741	20.0	yes	both	no	no	no	
97246.84c	243.955	ENDF71x	ENDF/B-VII.1	2010	2500.0	226391	735	20.0	yes	both	no	no	no	
97246.85c	243.955	ENDF71x	ENDF/B-VII.1	2010	0.1	226535	751	20.0	yes	both	no	no	no	
97246.86c	243.955	ENDF71x	ENDF/B-VII.1	2010	250.0	226472	744	20.0	yes	both	no	no	no	
97246.710nc	243.955	ENDF71x	ENDF/B-VII.1	2010	293.6	226472	744	20.0	yes	both	no	no	no	
97246.711nc	243.955	ENDF71x	ENDF/B-VII.1	2010	600.0	226445	741	20.0	yes	both	no	no	no	
97246.712nc	243.955	ENDF71x	ENDF/B-VII.1	2010	900.0	226436	740	20.0	yes	both	no	no	no	
97246.713nc	243.955	ENDF71x	ENDF/B-VII.1	2010	1200.0	226445	741	20.0	yes	both	no	no	no	
97246.714nc	243.955	ENDF71x	ENDF/B-VII.1	2010	2500.0	226391	735	20.0	yes	both	no	no	no	
97246.715nc	243.955	ENDF71x	ENDF/B-VII.1	2010	0.1	226535	751	20.0	yes	both	no	no	no	
97246.716nc	243.955	ENDF71x	ENDF/B-VII.1	2010	250.0	226472	744	20.0	yes	both	no	no	no	
Bk-247														
97247.80c	244.948	ENDF71x	ENDF/B-VII.1	2010	293.6	235438	788	20.0	yes	both	no	no	no	
97247.81c	244.948	ENDF71x	ENDF/B-VII.1	2010	600.0	235492	794	20.0	yes	both	no	no	no	
97247.82c	244.948	ENDF71x	ENDF/B-VII.1	2010	900.0	235483	793	20.0	yes	both	no	no	no	
97247.83c	244.948	ENDF71x	ENDF/B-VII.1	2010	1200.0	235429	787	20.0	yes	both	no	no	no	
97247.84c	244.948	ENDF71x	ENDF/B-VII.1	2010	2500.0	235483	793	20.0	yes	both	no	no	no	
97247.85c	244.948	ENDF71x	ENDF/B-VII.1	2010	0.1	235492	794	20.0	yes	both	no	no	no	
97247.86c	244.948	ENDF71x	ENDF/B-VII.1	2010	250.0	235483	793	20.0	yes	both	no	no	no	
97247.710nc	244.948	ENDF71x	ENDF/B-VII.1	2010	293.6	235438	788	20.0	yes	both	no	no	no	
97247.711nc	244.948	ENDF71x	ENDF/B-VII.1	2010	600.0	235492	794	20.0	yes	both	no	no	no	
97247.712nc	244.948	ENDF71x	ENDF/B-VII.1	2010	900.0	235483	793	20.0	yes	both	no	no	no	
97247.713nc	244.948	ENDF71x	ENDF/B-VII.1	2010	1200.0	235429	787	20.0	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
97247.714nc	244.948	ENDF71x	ENDF/B-VII.1	2010	2500.0	235483	793	20.0	yes	both	no	no	no	
97247.715nc	244.948	ENDF71x	ENDF/B-VII.1	2010	0.1	235492	794	20.0	yes	both	no	no	no	
97247.716nc	244.948	ENDF71x	ENDF/B-VII.1	2010	250.0	235483	793	20.0	yes	both	no	no	no	
Bk-248														
97248.80c	245.942	ENDF71x	ENDF/B-VII.1	2010	293.6	243019	772	20.0	yes	both	no	no	no	
97248.81c	245.942	ENDF71x	ENDF/B-VII.1	2010	600.0	243019	772	20.0	yes	both	no	no	no	
97248.82c	245.942	ENDF71x	ENDF/B-VII.1	2010	900.0	243010	771	20.0	yes	both	no	no	no	
97248.83c	245.942	ENDF71x	ENDF/B-VII.1	2010	1200.0	242965	766	20.0	yes	both	no	no	no	
97248.84c	245.942	ENDF71x	ENDF/B-VII.1	2010	2500.0	242956	765	20.0	yes	both	no	no	no	
97248.85c	245.942	ENDF71x	ENDF/B-VII.1	2010	0.1	243109	782	20.0	yes	both	no	no	no	
97248.86c	245.942	ENDF71x	ENDF/B-VII.1	2010	250.0	243019	772	20.0	yes	both	no	no	no	
97248.710nc	245.942	ENDF71x	ENDF/B-VII.1	2010	293.6	243019	772	20.0	yes	both	no	no	no	
97248.711nc	245.942	ENDF71x	ENDF/B-VII.1	2010	600.0	243019	772	20.0	yes	both	no	no	no	
97248.712nc	245.942	ENDF71x	ENDF/B-VII.1	2010	900.0	243010	771	20.0	yes	both	no	no	no	
97248.713nc	245.942	ENDF71x	ENDF/B-VII.1	2010	1200.0	242965	766	20.0	yes	both	no	no	no	
97248.714nc	245.942	ENDF71x	ENDF/B-VII.1	2010	2500.0	242956	765	20.0	yes	both	no	no	no	
97248.715nc	245.942	ENDF71x	ENDF/B-VII.1	2010	0.1	243109	782	20.0	yes	both	no	no	no	
97248.716nc	245.942	ENDF71x	ENDF/B-VII.1	2010	250.0	243019	772	20.0	yes	both	no	no	no	
Bk-249														
97249.80c	246.935	ENDF71x	ENDF/B-VII.1	2010	293.6	320327	7780	20.0	yes	both	no	no	no	
97249.81c	246.935	ENDF71x	ENDF/B-VII.1	2010	600.0	314585	7142	20.0	yes	both	no	no	no	
97249.82c	246.935	ENDF71x	ENDF/B-VII.1	2010	900.0	311291	6776	20.0	yes	both	no	no	no	
97249.83c	246.935	ENDF71x	ENDF/B-VII.1	2010	1200.0	308708	6489	20.0	yes	both	no	no	no	
97249.84c	246.935	ENDF71x	ENDF/B-VII.1	2010	2500.0	300491	5576	20.0	yes	both	no	no	no	
97249.85c	246.935	ENDF71x	ENDF/B-VII.1	2010	0.1	339731	9936	20.0	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
97249.86c	246.935	ENDF71x	ENDF/B-VII.1	2010	250.0	321497	7910	20.0	yes	both	no	no	no	
97249.70c	246.94	endf70k	ENDF/B-VII.0	1986	293.6	85504	7875	20	no	both	no	no	yes	
97249.71c	246.94	endf70k	ENDF/B-VII.0	1986	600	80712	7276	20	no	both	no	no	yes	
97249.72c	246.94	endf70k	ENDF/B-VII.0	1986	900	77817	6914	20	no	both	no	no	yes	
97249.73c	246.94	endf70k	ENDF/B-VII.0	1986	1200	75296	6599	20	no	both	no	no	yes	
97249.74c	246.94	endf70k	ENDF/B-VII.0	1986	2500	68056	5694	20	no	both	no	no	yes	
97249.66c	246.94	endf66c	ENDF/B-VI.0	1986	293.6	85568	7883	20	no	both	no	no	yes	
97249.65c	246.94	endf66e	ENDF/B-VI.0	1986	3000.1	65384	5360	20	no	both	no	no	yes	
97249.60c	246.94	endf60	ENDF/B-VI.0:X	1986	293.6	50503	5268	20	no	both	no	no	no	
97249.42c	246.9353	endl92	LLNL	<1992	300	19573	809	30	yes	both	no	no	no	
97249.710nc	246.935	ENDF71x	ENDF/B-VII.1	2010	293.6	320327	7780	20.0	yes	both	no	no	no	
97249.711nc	246.935	ENDF71x	ENDF/B-VII.1	2010	600.0	314585	7142	20.0	yes	both	no	no	no	
97249.712nc	246.935	ENDF71x	ENDF/B-VII.1	2010	900.0	311291	6776	20.0	yes	both	no	no	no	
97249.713nc	246.935	ENDF71x	ENDF/B-VII.1	2010	1200.0	308708	6489	20.0	yes	both	no	no	no	
97249.714nc	246.935	ENDF71x	ENDF/B-VII.1	2010	2500.0	300491	5576	20.0	yes	both	no	no	no	
97249.715nc	246.935	ENDF71x	ENDF/B-VII.1	2010	0.1	339731	9936	20.0	yes	both	no	no	no	
97249.716nc	246.935	ENDF71x	ENDF/B-VII.1	2010	250.0	321497	7910	20.0	yes	both	no	no	no	
Bk-250														
97250.80c	247.93	ENDF71x	ENDF/B-VII.1	2010	293.6	273538	792	20.0	yes	both	no	no	no	
97250.81c	247.93	ENDF71x	ENDF/B-VII.1	2010	600.0	273466	784	20.0	yes	both	no	no	no	
97250.82c	247.93	ENDF71x	ENDF/B-VII.1	2010	900.0	273475	785	20.0	yes	both	no	no	no	
97250.83c	247.93	ENDF71x	ENDF/B-VII.1	2010	1200.0	273493	787	20.0	yes	both	no	no	no	
97250.84c	247.93	ENDF71x	ENDF/B-VII.1	2010	2500.0	273421	779	20.0	yes	both	no	no	no	
97250.85c	247.93	ENDF71x	ENDF/B-VII.1	2010	0.1	273547	793	20.0	yes	both	no	no	no	
97250.86c	247.93	ENDF71x	ENDF/B-VII.1	2010	250.0	273529	791	20.0	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
97250.70c	247.93	endf70k	ENDF/B-VII.0	1987	293.6	91400	9660	20	no	both	no	no	yes	
97250.71c	247.93	endf70k	ENDF/B-VII.0	1987	600	85772	8856	20	no	both	no	no	yes	
97250.72c	247.93	endf70k	ENDF/B-VII.0	1987	900	82076	8328	20	no	both	no	no	yes	
97250.73c	247.93	endf70k	ENDF/B-VII.0	1987	1200	79773	7999	20	no	both	no	no	yes	
97250.74c	247.93	endf70k	ENDF/B-VII.0	1987	2500	71849	6867	20	no	both	no	no	yes	
97250.710nc	247.93	ENDF71x	ENDF/B-VII.1	2010	293.6	273538	792	20.0	yes	both	no	no	no	
97250.711nc	247.93	ENDF71x	ENDF/B-VII.1	2010	600.0	273466	784	20.0	yes	both	no	no	no	
97250.712nc	247.93	ENDF71x	ENDF/B-VII.1	2010	900.0	273475	785	20.0	yes	both	no	no	no	
97250.713nc	247.93	ENDF71x	ENDF/B-VII.1	2010	1200.0	273493	787	20.0	yes	both	no	no	no	
97250.714nc	247.93	ENDF71x	ENDF/B-VII.1	2010	2500.0	273421	779	20.0	yes	both	no	no	no	
97250.715nc	247.93	ENDF71x	ENDF/B-VII.1	2010	0.1	273547	793	20.0	yes	both	no	no	no	
97250.716nc	247.93	ENDF71x	ENDF/B-VII.1	2010	250.0	273529	791	20.0	yes	both	no	no	no	
						Z = 98, californium								
Cf-246														
98246.80c	243.955	ENDF71x	ENDF/B-VII.1	2010	293.6	217832	760	20.0	yes	both	no	no	no	
98246.81c	243.955	ENDF71x	ENDF/B-VII.1	2010	600.0	217841	761	20.0	yes	both	no	no	no	
98246.82c	243.955	ENDF71x	ENDF/B-VII.1	2010	900.0	217832	760	20.0	yes	both	no	no	no	
98246.83c	243.955	ENDF71x	ENDF/B-VII.1	2010	1200.0	217832	760	20.0	yes	both	no	no	no	
98246.84c	243.955	ENDF71x	ENDF/B-VII.1	2010	2500.0	217841	761	20.0	yes	both	no	no	no	
98246.85c	243.955	ENDF71x	ENDF/B-VII.1	2010	0.1	217805	757	20.0	yes	both	no	no	no	
98246.86c	243.955	ENDF71x	ENDF/B-VII.1	2010	250.0	217805	757	20.0	yes	both	no	no	no	
98246.710nc	243.955	ENDF71x	ENDF/B-VII.1	2010	293.6	217832	760	20.0	yes	both	no	no	no	
98246.711nc	243.955	ENDF71x	ENDF/B-VII.1	2010	600.0	217841	761	20.0	yes	both	no	no	no	
98246.712nc	243.955	ENDF71x	ENDF/B-VII.1	2010	900.0	217832	760	20.0	yes	both	no	no	no	
98246.713nc	243.955	ENDF71x	ENDF/B-VII.1	2010	1200.0	217832	760	20.0	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
98246.714nc	243.955	ENDF71x	ENDF/B-VII.1	2010	2500.0	217841	761	20.0	yes	both	no	no	no	
98246.715nc	243.955	ENDF71x	ENDF/B-VII.1	2010	0.1	217805	757	20.0	yes	both	no	no	no	
98246.716nc	243.955	ENDF71x	ENDF/B-VII.1	2010	250.0	217805	757	20.0	yes	both	no	no	no	
Cf-248														
98248.80c	245.941	ENDF71x	ENDF/B-VII.1	2010	293.6	243277	785	20.0	yes	both	no	no	no	
98248.81c	245.941	ENDF71x	ENDF/B-VII.1	2010	600.0	243286	786	20.0	yes	both	no	no	no	
98248.82c	245.941	ENDF71x	ENDF/B-VII.1	2010	900.0	243259	783	20.0	yes	both	no	no	no	
98248.83c	245.941	ENDF71x	ENDF/B-VII.1	2010	1200.0	243277	785	20.0	yes	both	no	no	no	
98248.84c	245.941	ENDF71x	ENDF/B-VII.1	2010	2500.0	243295	787	20.0	yes	both	no	no	no	
98248.85c	245.941	ENDF71x	ENDF/B-VII.1	2010	0.1	243223	779	20.0	yes	both	no	no	no	
98248.86c	245.941	ENDF71x	ENDF/B-VII.1	2010	250.0	243268	784	20.0	yes	both	no	no	no	
98248.710nc	245.941	ENDF71x	ENDF/B-VII.1	2010	293.6	243277	785	20.0	yes	both	no	no	no	
98248.711nc	245.941	ENDF71x	ENDF/B-VII.1	2010	600.0	243286	786	20.0	yes	both	no	no	no	
98248.712nc	245.941	ENDF71x	ENDF/B-VII.1	2010	900.0	243259	783	20.0	yes	both	no	no	no	
98248.713nc	245.941	ENDF71x	ENDF/B-VII.1	2010	1200.0	243277	785	20.0	yes	both	no	no	no	
98248.714nc	245.941	ENDF71x	ENDF/B-VII.1	2010	2500.0	243295	787	20.0	yes	both	no	no	no	
98248.715nc	245.941	ENDF71x	ENDF/B-VII.1	2010	0.1	243223	779	20.0	yes	both	no	no	no	
98248.716nc	245.941	ENDF71x	ENDF/B-VII.1	2010	250.0	243268	784	20.0	yes	both	no	no	no	
Cf-249														
98249.80c	246.935	ENDF71x	ENDF/B-VII.1	2010	293.6	329964	7524	20.0	yes	both	no	yes	no	
98249.81c	246.935	ENDF71x	ENDF/B-VII.1	2010	600.0	326418	7130	20.0	yes	both	no	yes	no	
98249.82c	246.935	ENDF71x	ENDF/B-VII.1	2010	900.0	323844	6844	20.0	yes	both	no	yes	no	
98249.83c	246.935	ENDF71x	ENDF/B-VII.1	2010	1200.0	321864	6624	20.0	yes	both	no	yes	no	
98249.84c	246.935	ENDF71x	ENDF/B-VII.1	2010	2500.0	317301	6117	20.0	yes	both	no	yes	no	
98249.85c	246.935	ENDF71x	ENDF/B-VII.1	2010	0.1	336318	8230	20.0	yes	both	no	yes	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
98249.86c	246.935	ENDF71x	ENDF/B-VII.1	2010	250.0	330693	7605	20.0	yes	both	no	yes	no	
98249.70c	246.94	endf70k	ENDF/B-VII.0	1989	293.6	83333	6394	20	no	both	no	yes	yes	
98249.71c	246.94	endf70k	ENDF/B-VII.0	1989	600	78813	5829	20	no	both	no	yes	yes	
98249.72c	246.94	endf70k	ENDF/B-VII.0	1989	900	76182	5500	20	no	both	no	yes	yes	
98249.73c	246.94	endf70k	ENDF/B-VII.0	1989	1200	74269	5261	20	no	both	no	yes	yes	
98249.74c	246.94	endf70k	ENDF/B-VII.0	1989	2500	68774	4574	20	no	both	no	yes	yes	
98249.66c	246.94	endf66c	ENDF/B-VI.0:X	1989	293.6	78679	6404	20	no	both	no	yes	yes	
98249.65c	246.94	endf66e	ENDF/B-VI.0:X	1989	3000.1	62455	4376	20	no	both	no	yes	yes	
98249.60c	246.94	endf60	ENDF/B-VI.0:X	1989	293.6	41271	4329	20	no	both	no	no	no	
98249.61c	246.94	endf6dn	ENDF/B-VI.0:X	1989	293.6	46154	4329	20	no	both	no	yes	no	
98249.42c	246.9352	endl92	LLNL	<1992	300	49615	4554	30	yes	both	no	no	no	
98249.710nc	246.935	ENDF71x	ENDF/B-VII.1	2010	293.6	329964	7524	20.0	yes	both	no	yes	no	
98249.711nc	246.935	ENDF71x	ENDF/B-VII.1	2010	600.0	326418	7130	20.0	yes	both	no	yes	no	
98249.712nc	246.935	ENDF71x	ENDF/B-VII.1	2010	900.0	323844	6844	20.0	yes	both	no	yes	no	
98249.713nc	246.935	ENDF71x	ENDF/B-VII.1	2010	1200.0	321864	6624	20.0	yes	both	no	yes	no	
98249.714nc	246.935	ENDF71x	ENDF/B-VII.1	2010	2500.0	317301	6117	20.0	yes	both	no	yes	no	
98249.715nc	246.935	ENDF71x	ENDF/B-VII.1	2010	0.1	336318	8230	20.0	yes	both	no	yes	no	
98249.716nc	246.935	ENDF71x	ENDF/B-VII.1	2010	250.0	330693	7605	20.0	yes	both	no	yes	no	
Cf-250														
98250.80c	247.928	ENDF71x	ENDF/B-VII.1	2010	293.6	248344	2023	20.0	yes	both	no	no	no	
98250.81c	247.928	ENDF71x	ENDF/B-VII.1	2010	600.0	247786	1961	20.0	yes	both	no	no	no	
98250.82c	247.928	ENDF71x	ENDF/B-VII.1	2010	900.0	247588	1939	20.0	yes	both	no	no	no	
98250.83c	247.928	ENDF71x	ENDF/B-VII.1	2010	1200.0	247309	1908	20.0	yes	both	no	no	no	
98250.84c	247.928	ENDF71x	ENDF/B-VII.1	2010	2500.0	246886	1861	20.0	yes	both	no	no	no	
98250.85c	247.928	ENDF71x	ENDF/B-VII.1	2010	0.1	249145	2112	20.0	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
98250.86c	247.928	ENDF71x	ENDF/B-VII.1	2010	250.0	248461	2036	20.0	yes	both	no	no	no	
98250.70c	247.928	endf70k	ENDF/B-VII.0	1976	293.6	78149	8229	20	yes	tot	no	no	yes	
98250.71c	247.928	endf70k	ENDF/B-VII.0	1976	600	75266	7869	20	yes	tot	no	no	yes	
98250.72c	247.928	endf70k	ENDF/B-VII.0	1976	900	74168	7731	20	yes	tot	no	no	yes	
98250.73c	247.928	endf70k	ENDF/B-VII.0	1976	1200	72316	7499	20	yes	tot	no	no	yes	
98250.74c	247.928	endf70k	ENDF/B-VII.0	1976	2500	68979	7082	20	yes	tot	no	no	yes	
98250.66c	247.928	endf66c	ENDF/B-VI.2	1976	293.6	77434	8132	20	yes	tot	no	no	yes	
98250.65c	247.928	endf66e	ENDF/B-VI.2	1976	3000.1	66024	6701	20	yes	tot	no	no	yes	
98250.60c	247.928	endf60	ENDF/B-VI.2	1976	293.6	47758	5554	20	yes	tot	no	no	no	
98250.42c	247.9281	endl92	LLNL	<1992	300	17659	574	30	yes	both	no	no	no	
98250.710nc	247.928	ENDF71x	ENDF/B-VII.1	2010	293.6	248344	2023	20.0	yes	both	no	no	no	
98250.711nc	247.928	ENDF71x	ENDF/B-VII.1	2010	600.0	247786	1961	20.0	yes	both	no	no	no	
98250.712nc	247.928	ENDF71x	ENDF/B-VII.1	2010	900.0	247588	1939	20.0	yes	both	no	no	no	
98250.713nc	247.928	ENDF71x	ENDF/B-VII.1	2010	1200.0	247309	1908	20.0	yes	both	no	no	no	
98250.714nc	247.928	ENDF71x	ENDF/B-VII.1	2010	2500.0	246886	1861	20.0	yes	both	no	no	no	
98250.715nc	247.928	ENDF71x	ENDF/B-VII.1	2010	0.1	249145	2112	20.0	yes	both	no	no	no	
98250.716nc	247.928	ENDF71x	ENDF/B-VII.1	2010	250.0	248461	2036	20.0	yes	both	no	no	no	
Cf-251														
98251.80c	248.923	ENDF71x	ENDF/B-VII.1	2010	293.6	296577	1149	20.0	yes	both	no	yes	yes	
98251.81c	248.923	ENDF71x	ENDF/B-VII.1	2010	600.0	296487	1139	20.0	yes	both	no	yes	yes	
98251.82c	248.923	ENDF71x	ENDF/B-VII.1	2010	900.0	296442	1134	20.0	yes	both	no	yes	yes	
98251.83c	248.923	ENDF71x	ENDF/B-VII.1	2010	1200.0	296316	1120	20.0	yes	both	no	yes	yes	
98251.84c	248.923	ENDF71x	ENDF/B-VII.1	2010	2500.0	296181	1105	20.0	yes	both	no	yes	yes	
98251.85c	248.923	ENDF71x	ENDF/B-VII.1	2010	0.1	296460	1136	20.0	yes	both	no	yes	yes	
98251.86c	248.923	ENDF71x	ENDF/B-VII.1	2010	250.0	296622	1154	20.0	yes	both	no	yes	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
98251.70c	248.923	endf70k	ENDF/B-VII.0	1976	293.6	78002	6222	20	yes	both	no	yes	yes	
98251.71c	248.923	endf70k	ENDF/B-VII.0	1976	600	75104	5900	20	yes	both	no	yes	yes	
98251.72c	248.923	endf70k	ENDF/B-VII.0	1976	900	74231	5803	20	yes	both	no	yes	yes	
98251.73c	248.923	endf70k	ENDF/B-VII.0	1976	1200	73520	5724	20	yes	both	no	yes	yes	
98251.74c	248.923	endf70k	ENDF/B-VII.0	1976	2500	70010	5334	20	yes	both	no	yes	yes	
98251.66c	248.923	endf66c	ENDF/B-VI.2	1976	293.6	73253	6222	20	yes	both	no	yes	yes	
98251.65c	248.923	endf66e	ENDF/B-VI.2	1976	3000.1	64568	5257	20	yes	both	no	yes	yes	
98251.60c	248.923	endf60	ENDF/B-VI.2	1976	293.6	42817	4226	20	yes	both	no	no	no	
98251.61c	248.923	endf6dn	ENDF/B-VI.2	1976	293.6	47715	4226	20	yes	both	no	yes	no	
98251.42c	248.9227	endl92	LLNL	<1992	300	17673	545	30	yes	both	no	no	no	
98251.710nc	248.923	ENDF71x	ENDF/B-VII.1	2010	293.6	296577	1149	20.0	yes	both	no	yes	yes	
98251.711nc	248.923	ENDF71x	ENDF/B-VII.1	2010	600.0	296487	1139	20.0	yes	both	no	yes	yes	
98251.712nc	248.923	ENDF71x	ENDF/B-VII.1	2010	900.0	296442	1134	20.0	yes	both	no	yes	yes	
98251.713nc	248.923	ENDF71x	ENDF/B-VII.1	2010	1200.0	296316	1120	20.0	yes	both	no	yes	yes	
98251.714nc	248.923	ENDF71x	ENDF/B-VII.1	2010	2500.0	296181	1105	20.0	yes	both	no	yes	yes	
98251.715nc	248.923	ENDF71x	ENDF/B-VII.1	2010	0.1	296460	1136	20.0	yes	both	no	yes	yes	
98251.716nc	248.923	ENDF71x	ENDF/B-VII.1	2010	250.0	296622	1154	20.0	yes	both	no	yes	yes	
Cf-252														
98252.80c	249.916	ENDF71x	ENDF/B-VII.1	2010	293.6	332997	9733	20.0	yes	both	no	yes	yes	
98252.81c	249.916	ENDF71x	ENDF/B-VII.1	2010	600.0	329424	9336	20.0	yes	both	no	yes	yes	
98252.82c	249.916	ENDF71x	ENDF/B-VII.1	2010	900.0	326913	9057	20.0	yes	both	no	yes	yes	
98252.83c	249.916	ENDF71x	ENDF/B-VII.1	2010	1200.0	324789	8821	20.0	yes	both	no	yes	yes	
98252.84c	249.916	ENDF71x	ENDF/B-VII.1	2010	2500.0	320505	8345	20.0	yes	both	no	yes	yes	
98252.85c	249.916	ENDF71x	ENDF/B-VII.1	2010	0.1	361302	12878	20.0	yes	both	no	yes	yes	
98252.86c	249.916	ENDF71x	ENDF/B-VII.1	2010	250.0	333969	9841	20.0	yes	both	no	yes	yes	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
98252.70c	249.916	endf70k	ENDF/B-VII.0	1976	293.6	80286	7766	20	yes	tot	no	no	yes	
98252.71c	249.916	endf70k	ENDF/B-VII.0	1976	600	77028	7404	20	yes	tot	no	no	yes	
98252.72c	249.916	endf70k	ENDF/B-VII.0	1976	900	76479	7343	20	yes	tot	no	no	yes	
98252.73c	249.916	endf70k	ENDF/B-VII.0	1976	1200	74382	7110	20	yes	tot	no	no	yes	
98252.74c	249.916	endf70k	ENDF/B-VII.0	1976	2500	71259	6763	20	yes	tot	no	no	yes	
98252.66c	249.916	endf66c	ENDF/B-VI.2	1976	293.6	78378	7554	20	yes	tot	no	no	yes	
98252.65c	249.916	endf66e	ENDF/B-VI.2	1976	3000.1	66642	6250	20	yes	tot	no	no	yes	
98252.60c	249.916	endf60	ENDF/B-VI.2	1976	293.6	49204	5250	20	yes	both	no	no	no	
98252.42c	249.9161	endl92	LLNL	<1992	300	21027	1210	30	yes	both	no	no	no	
98252.710nc	249.916	ENDF71x	ENDF/B-VII.1	2010	293.6	332997	9733	20.0	yes	both	no	yes	yes	
98252.711nc	249.916	ENDF71x	ENDF/B-VII.1	2010	600.0	329424	9336	20.0	yes	both	no	yes	yes	
98252.712nc	249.916	ENDF71x	ENDF/B-VII.1	2010	900.0	326913	9057	20.0	yes	both	no	yes	yes	
98252.713nc	249.916	ENDF71x	ENDF/B-VII.1	2010	1200.0	324789	8821	20.0	yes	both	no	yes	yes	
98252.714nc	249.916	ENDF71x	ENDF/B-VII.1	2010	2500.0	320505	8345	20.0	yes	both	no	yes	yes	
98252.715nc	249.916	ENDF71x	ENDF/B-VII.1	2010	0.1	361302	12878	20.0	yes	both	no	yes	yes	
98252.716nc	249.916	ENDF71x	ENDF/B-VII.1	2010	250.0	333969	9841	20.0	yes	both	no	yes	yes	
Cf-253														
98253.80c	250.911	ENDF71x	ENDF/B-VII.1	2010	293.6	243116	834	20.0	yes	both	no	no	no	
98253.81c	250.911	ENDF71x	ENDF/B-VII.1	2010	600.0	243053	827	20.0	yes	both	no	no	no	
98253.82c	250.911	ENDF71x	ENDF/B-VII.1	2010	900.0	243053	827	20.0	yes	both	no	no	no	
98253.83c	250.911	ENDF71x	ENDF/B-VII.1	2010	1200.0	243062	828	20.0	yes	both	no	no	no	
98253.84c	250.911	ENDF71x	ENDF/B-VII.1	2010	2500.0	243044	826	20.0	yes	both	no	no	no	
98253.85c	250.911	ENDF71x	ENDF/B-VII.1	2010	0.1	243233	847	20.0	yes	both	no	no	no	
98253.86c	250.911	ENDF71x	ENDF/B-VII.1	2010	250.0	243116	834	20.0	yes	both	no	no	no	
98253.710nc	250.911	ENDF71x	ENDF/B-VII.1	2010	293.6	243116	834	20.0	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
98253.711nc	250.911	ENDF71x	ENDF/B-VII.1	2010	600.0	243053	827	20.0	yes	both	no	no	no	
98253.712nc	250.911	ENDF71x	ENDF/B-VII.1	2010	900.0	243053	827	20.0	yes	both	no	no	no	
98253.713nc	250.911	ENDF71x	ENDF/B-VII.1	2010	1200.0	243062	828	20.0	yes	both	no	no	no	
98253.714nc	250.911	ENDF71x	ENDF/B-VII.1	2010	2500.0	243044	826	20.0	yes	both	no	no	no	
98253.715nc	250.911	ENDF71x	ENDF/B-VII.1	2010	0.1	243233	847	20.0	yes	both	no	no	no	
98253.716nc	250.911	ENDF71x	ENDF/B-VII.1	2010	250.0	243116	834	20.0	yes	both	no	no	no	
Cf-254														
98254.80c	251.905	ENDF71x	ENDF/B-VII.1	2010	293.6	223360	858	20.0	yes	both	no	no	no	
98254.81c	251.905	ENDF71x	ENDF/B-VII.1	2010	600.0	223423	865	20.0	yes	both	no	no	no	
98254.82c	251.905	ENDF71x	ENDF/B-VII.1	2010	900.0	223369	859	20.0	yes	both	no	no	no	
98254.83c	251.905	ENDF71x	ENDF/B-VII.1	2010	1200.0	223423	865	20.0	yes	both	no	no	no	
98254.84c	251.905	ENDF71x	ENDF/B-VII.1	2010	2500.0	223495	873	20.0	yes	both	no	no	no	
98254.85c	251.905	ENDF71x	ENDF/B-VII.1	2010	0.1	222919	809	20.0	yes	both	no	no	no	
98254.86c	251.905	ENDF71x	ENDF/B-VII.1	2010	250.0	223342	856	20.0	yes	both	no	no	no	
98254.70c	251.905	endf70k	ENDF/B-VII.0	1994	293.6	17820	952	20	no	both	no	no	no	
98254.71c	251.905	endf70k	ENDF/B-VII.0	1994	600	17892	961	20	no	both	no	no	no	
98254.72c	251.905	endf70k	ENDF/B-VII.0	1994	900	17876	959	20	no	both	no	no	no	
98254.73c	251.905	endf70k	ENDF/B-VII.0	1994	1200	17876	959	20	no	both	no	no	no	
98254.74c	251.905	endf70k	ENDF/B-VII.0	1994	2500	17964	970	20	no	both	no	no	no	
98254.710nc	251.905	ENDF71x	ENDF/B-VII.1	2010	293.6	223360	858	20.0	yes	both	no	no	no	
98254.711nc	251.905	ENDF71x	ENDF/B-VII.1	2010	600.0	223423	865	20.0	yes	both	no	no	no	
98254.712nc	251.905	ENDF71x	ENDF/B-VII.1	2010	900.0	223369	859	20.0	yes	both	no	no	no	
98254.713nc	251.905	ENDF71x	ENDF/B-VII.1	2010	1200.0	223423	865	20.0	yes	both	no	no	no	
98254.714nc	251.905	ENDF71x	ENDF/B-VII.1	2010	2500.0	223495	873	20.0	yes	both	no	no	no	
98254.715nc	251.905	ENDF71x	ENDF/B-VII.1	2010	0.1	222919	809	20.0	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
98254.716nc	251.905	ENDF71x	ENDF/B-VII.1	2010	250.0	223342	856	20.0	yes	both	no	no	no	
				Z = 99, einsteinium										
Es-251														
99251.80c	248.923	ENDF71x	ENDF/B-VII.1	2010	293.6	223242	816	20.0	yes	both	no	no	no	
99251.81c	248.923	ENDF71x	ENDF/B-VII.1	2010	600.0	223278	820	20.0	yes	both	no	no	no	
99251.82c	248.923	ENDF71x	ENDF/B-VII.1	2010	900.0	223278	820	20.0	yes	both	no	no	no	
99251.83c	248.923	ENDF71x	ENDF/B-VII.1	2010	1200.0	223233	815	20.0	yes	both	no	no	no	
99251.84c	248.923	ENDF71x	ENDF/B-VII.1	2010	2500.0	223242	816	20.0	yes	both	no	no	no	
99251.85c	248.923	ENDF71x	ENDF/B-VII.1	2010	0.1	223278	820	20.0	yes	both	no	no	no	
99251.86c	248.923	ENDF71x	ENDF/B-VII.1	2010	250.0	223251	817	20.0	yes	both	no	no	no	
99251.710nc	248.923	ENDF71x	ENDF/B-VII.1	2010	293.6	223242	816	20.0	yes	both	no	no	no	
99251.711nc	248.923	ENDF71x	ENDF/B-VII.1	2010	600.0	223278	820	20.0	yes	both	no	no	no	
99251.712nc	248.923	ENDF71x	ENDF/B-VII.1	2010	900.0	223278	820	20.0	yes	both	no	no	no	
99251.713nc	248.923	ENDF71x	ENDF/B-VII.1	2010	1200.0	223233	815	20.0	yes	both	no	no	no	
99251.714nc	248.923	ENDF71x	ENDF/B-VII.1	2010	2500.0	223242	816	20.0	yes	both	no	no	no	
99251.715nc	248.923	ENDF71x	ENDF/B-VII.1	2010	0.1	223278	820	20.0	yes	both	no	no	no	
99251.716nc	248.923	ENDF71x	ENDF/B-VII.1	2010	250.0	223251	817	20.0	yes	both	no	no	no	
Es-252														
99252.80c	249.917	ENDF71x	ENDF/B-VII.1	2010	293.6	235400	786	20.0	yes	both	no	no	no	
99252.81c	249.917	ENDF71x	ENDF/B-VII.1	2010	600.0	235301	775	20.0	yes	both	no	no	no	
99252.82c	249.917	ENDF71x	ENDF/B-VII.1	2010	900.0	235337	779	20.0	yes	both	no	no	no	
99252.83c	249.917	ENDF71x	ENDF/B-VII.1	2010	1200.0	235328	778	20.0	yes	both	no	no	no	
99252.84c	249.917	ENDF71x	ENDF/B-VII.1	2010	2500.0	235193	763	20.0	yes	both	no	no	no	
99252.85c	249.917	ENDF71x	ENDF/B-VII.1	2010	0.1	235445	791	20.0	yes	both	no	no	no	
99252.86c	249.917	ENDF71x	ENDF/B-VII.1	2010	250.0	235400	786	20.0	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
99252.710nc	249.917	ENDF71x	ENDF/B-VII.1	2010	293.6	235400	786	20.0	yes	both	no	no	no	
99252.711nc	249.917	ENDF71x	ENDF/B-VII.1	2010	600.0	235301	775	20.0	yes	both	no	no	no	
99252.712nc	249.917	ENDF71x	ENDF/B-VII.1	2010	900.0	235337	779	20.0	yes	both	no	no	no	
99252.713nc	249.917	ENDF71x	ENDF/B-VII.1	2010	1200.0	235328	778	20.0	yes	both	no	no	no	
99252.714nc	249.917	ENDF71x	ENDF/B-VII.1	2010	2500.0	235193	763	20.0	yes	both	no	no	no	
99252.715nc	249.917	ENDF71x	ENDF/B-VII.1	2010	0.1	235445	791	20.0	yes	both	no	no	no	
99252.716nc	249.917	ENDF71x	ENDF/B-VII.1	2010	250.0	235400	786	20.0	yes	both	no	no	no	
Es-253														
99253.80c	250.911	ENDF71x	ENDF/B-VII.1	2010	293.6	228371	1009	20.0	yes	both	no	no	no	
99253.81c	250.911	ENDF71x	ENDF/B-VII.1	2010	600.0	228245	995	20.0	yes	both	no	no	no	
99253.82c	250.911	ENDF71x	ENDF/B-VII.1	2010	900.0	228272	998	20.0	yes	both	no	no	no	
99253.83c	250.911	ENDF71x	ENDF/B-VII.1	2010	1200.0	228200	990	20.0	yes	both	no	no	no	
99253.84c	250.911	ENDF71x	ENDF/B-VII.1	2010	2500.0	227921	959	20.0	yes	both	no	no	no	
99253.85c	250.911	ENDF71x	ENDF/B-VII.1	2010	0.1	228578	1032	20.0	yes	both	no	no	no	
99253.86c	250.911	ENDF71x	ENDF/B-VII.1	2010	250.0	228371	1009	20.0	yes	both	no	no	no	
99253.710nc	250.911	ENDF71x	ENDF/B-VII.1	2010	293.6	228371	1009	20.0	yes	both	no	no	no	
99253.711nc	250.911	ENDF71x	ENDF/B-VII.1	2010	600.0	228245	995	20.0	yes	both	no	no	no	
99253.712nc	250.911	ENDF71x	ENDF/B-VII.1	2010	900.0	228272	998	20.0	yes	both	no	no	no	
99253.713nc	250.911	ENDF71x	ENDF/B-VII.1	2010	1200.0	228200	990	20.0	yes	both	no	no	no	
99253.714nc	250.911	ENDF71x	ENDF/B-VII.1	2010	2500.0	227921	959	20.0	yes	both	no	no	no	
99253.715nc	250.911	ENDF71x	ENDF/B-VII.1	2010	0.1	228578	1032	20.0	yes	both	no	no	no	
99253.716nc	250.911	ENDF71x	ENDF/B-VII.1	2010	250.0	228371	1009	20.0	yes	both	no	no	no	
Es-254														
99254.80c	251.905	ENDF71x	ENDF/B-VII.1	2010	293.6	243793	933	20.0	yes	both	no	yes	no	
99254.81c	251.905	ENDF71x	ENDF/B-VII.1	2010	600.0	243676	920	20.0	yes	both	no	yes	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
99254.82c	251.905	ENDF71x	ENDF/B-VII.1	2010	900.0	243739	927	20.0	yes	both	no	yes	no	
99254.83c	251.905	ENDF71x	ENDF/B-VII.1	2010	1200.0	243748	928	20.0	yes	both	no	yes	no	
99254.84c	251.905	ENDF71x	ENDF/B-VII.1	2010	2500.0	243586	910	20.0	yes	both	no	yes	no	
99254.85c	251.905	ENDF71x	ENDF/B-VII.1	2010	0.1	243370	886	20.0	yes	both	no	yes	no	
99254.86c	251.905	ENDF71x	ENDF/B-VII.1	2010	250.0	243793	933	20.0	yes	both	no	yes	no	
99254.70c	251.905	endf70k	ENDF/B-VII.0	1994	293.6	18087	1031	20	no	both	no	no	no	
99254.71c	251.905	endf70k	ENDF/B-VII.0	1994	600	18087	1031	20	no	both	no	no	no	
99254.72c	251.905	endf70k	ENDF/B-VII.0	1994	900	18031	1024	20	no	both	no	no	no	
99254.73c	251.905	endf70k	ENDF/B-VII.0	1994	1200	18079	1030	20	no	both	no	no	no	
99254.74c	251.905	endf70k	ENDF/B-VII.0	1994	2500	18063	1028	20	no	both	no	no	no	
99254.710nc	251.905	ENDF71x	ENDF/B-VII.1	2010	293.6	243793	933	20.0	yes	both	no	yes	no	
99254.711nc	251.905	ENDF71x	ENDF/B-VII.1	2010	600.0	243676	920	20.0	yes	both	no	yes	no	
99254.712nc	251.905	ENDF71x	ENDF/B-VII.1	2010	900.0	243739	927	20.0	yes	both	no	yes	no	
99254.713nc	251.905	ENDF71x	ENDF/B-VII.1	2010	1200.0	243748	928	20.0	yes	both	no	yes	no	
99254.714nc	251.905	ENDF71x	ENDF/B-VII.1	2010	2500.0	243586	910	20.0	yes	both	no	yes	no	
99254.715nc	251.905	ENDF71x	ENDF/B-VII.1	2010	0.1	243370	886	20.0	yes	both	no	yes	no	
99254.716nc	251.905	ENDF71x	ENDF/B-VII.1	2010	250.0	243793	933	20.0	yes	both	no	yes	no	
Es-255														
99255.80c	252.899	ENDF71x	ENDF/B-VII.1	2007	293.6	214852	977	20.0	yes	both	no	no	no	
99255.81c	252.899	ENDF71x	ENDF/B-VII.1	2007	600.0	214627	952	20.0	yes	both	no	no	no	
99255.82c	252.899	ENDF71x	ENDF/B-VII.1	2007	900.0	214753	966	20.0	yes	both	no	no	no	
99255.83c	252.899	ENDF71x	ENDF/B-VII.1	2007	1200.0	214771	968	20.0	yes	both	no	no	no	
99255.84c	252.899	ENDF71x	ENDF/B-VII.1	2007	2500.0	214510	939	20.0	yes	both	no	no	no	
99255.85c	252.899	ENDF71x	ENDF/B-VII.1	2007	0.1	214501	938	20.0	yes	both	no	no	no	
99255.86c	252.899	ENDF71x	ENDF/B-VII.1	2007	250.0	214852	977	20.0	yes	both	no	no	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
99255.70c	252.899	endf70k	ENDF/B-VII.0	1994	293.6	19107	998	20	no	both	no	no	no	
99255.71c	252.899	endf70k	ENDF/B-VII.0	1994	600	19011	986	20	no	both	no	no	no	
99255.72c	252.899	endf70k	ENDF/B-VII.0	1994	900	19059	992	20	no	both	no	no	no	
99255.73c	252.899	endf70k	ENDF/B-VII.0	1994	1200	19099	997	20	no	both	no	no	no	
99255.74c	252.899	endf70k	ENDF/B-VII.0	1994	2500	19003	985	20	no	both	no	no	no	
99255.710nc	252.899	ENDF71x	ENDF/B-VII.1	2007	293.6	214852	977	20.0	yes	both	no	no	no	
99255.711nc	252.899	ENDF71x	ENDF/B-VII.1	2007	600.0	214627	952	20.0	yes	both	no	no	no	
99255.712nc	252.899	ENDF71x	ENDF/B-VII.1	2007	900.0	214753	966	20.0	yes	both	no	no	no	
99255.713nc	252.899	ENDF71x	ENDF/B-VII.1	2007	1200.0	214771	968	20.0	yes	both	no	no	no	
99255.714nc	252.899	ENDF71x	ENDF/B-VII.1	2007	2500.0	214510	939	20.0	yes	both	no	no	no	
99255.715nc	252.899	ENDF71x	ENDF/B-VII.1	2007	0.1	214501	938	20.0	yes	both	no	no	no	
99255.716nc	252.899	ENDF71x	ENDF/B-VII.1	2007	250.0	214852	977	20.0	yes	both	no	no	no	
Es-654														
99654.80c	251.905	ENDF71x	ENDF/B-VII.1	2010	293.6	257997	1063	20.0	yes	both	no	yes	no	
99654.81c	251.905	ENDF71x	ENDF/B-VII.1	2010	600.0	257997	1063	20.0	yes	both	no	yes	no	
99654.82c	251.905	ENDF71x	ENDF/B-VII.1	2010	900.0	257987	1062	20.0	yes	both	no	yes	no	
99654.83c	251.905	ENDF71x	ENDF/B-VII.1	2010	1200.0	257917	1055	20.0	yes	both	no	yes	no	
99654.84c	251.905	ENDF71x	ENDF/B-VII.1	2010	2500.0	257927	1056	20.0	yes	both	no	yes	no	
99654.85c	251.905	ENDF71x	ENDF/B-VII.1	2010	0.1	258017	1065	20.0	yes	both	no	yes	no	
99654.86c	251.905	ENDF71x	ENDF/B-VII.1	2010	250.0	258007	1064	20.0	yes	both	no	yes	no	
Z = 100, fermium														
Fm-255														
100255.80c	252.899	ENDF71x	ENDF/B-VII.1		293.6	265749	747	20.0	yes	both	no	yes	no	
100255.81c	252.899	ENDF71x	ENDF/B-VII.1		600.0	265740	746	20.0	yes	both	no	yes	no	
100255.82c	252.899	ENDF71x	ENDF/B-VII.1		900.0	265767	749	20.0	yes	both	no	yes	no	

Table 8: Continuous-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
100255.83c	252.899	ENDF71x	ENDF/B-VII.1		1200.0	265749	747	20.0	yes	both	no	yes	no	
100255.84c	252.899	ENDF71x	ENDF/B-VII.1		2500.0	265695	741	20.0	yes	both	no	yes	no	
100255.85c	252.899	ENDF71x	ENDF/B-VII.1		0.1	265893	763	20.0	yes	both	no	yes	no	
100255.86c	252.899	ENDF71x	ENDF/B-VII.1		250.0	265821	755	20.0	yes	both	no	yes	no	
100255.70c	252.899	endf70k	ENDF/B-VII.0	1994	293.6	17459	964	20	no	both	no	no	no	
100255.71c	252.899	endf70k	ENDF/B-VII.0	1994	600	17523	972	20	no	both	no	no	no	
100255.72c	252.899	endf70k	ENDF/B-VII.0	1994	900	17539	974	20	no	both	no	no	no	
100255.73c	252.899	endf70k	ENDF/B-VII.0	1994	1200	17451	963	20	no	both	no	no	no	
100255.74c	252.899	endf70k	ENDF/B-VII.0	1994	2500	17523	972	20	no	both	no	no	no	
100255.710nc	252.899	ENDF71x	ENDF/B-VII.1		293.6	265749	747	20.0	yes	both	no	yes	no	
100255.711nc	252.899	ENDF71x	ENDF/B-VII.1		600.0	265740	746	20.0	yes	both	no	yes	no	
100255.712nc	252.899	ENDF71x	ENDF/B-VII.1		900.0	265767	749	20.0	yes	both	no	yes	no	
100255.713nc	252.899	ENDF71x	ENDF/B-VII.1		1200.0	265749	747	20.0	yes	both	no	yes	no	
100255.714nc	252.899	ENDF71x	ENDF/B-VII.1		2500.0	265695	741	20.0	yes	both	no	yes	no	
100255.715nc	252.899	ENDF71x	ENDF/B-VII.1		0.1	265893	763	20.0	yes	both	no	yes	no	
100255.716nc	252.899	ENDF71x	ENDF/B-VII.1		250.0	265821	755	20.0	yes	both	no	yes	no	

4.1 Notes

1. The data libraries previously known as EPRIXS and U600K are now a part of the data library ENDF5MT.

2. Data were translated to ENDF/B-VI format with some modifications by LANL.

3. The 100XS data library contains data for 9 nuclides up to 100 MeV. Heating numbers on this data library are known to be incorrect, overestimating the energy deposition [LIT95].

4. Photon production data were added to the existing ENDF evaluation for 11B in 1984. A complete new evaluation was performed in 1986.

5. The natural carbon data 6000.50c are repeated here with the ZAID of 6012.50c for the users convenience. Both are based on the natural carbon ENDF/B-V.0 evaluation.

6. The delayed gamma ray at an energy of 1.7791 MeV from the reaction $n + \,^{27}\mathrm{Al} \to \,^{28}\mathrm{Al} \to \,^{28}\mathrm{Si} + \beta^- + \gamma$ has been included in the thermal-capture photon-production data for these two ZAIDs [FRA02].

7. The data libraries previously known as ARKRC, GDT2GP, IRNAT, MISCXS, TM169, and T2DDC are now a part of the data library MISC5XS.

8. Photon production data were added to ENDF/B-V.0 neutron files for argon and krypton by T-16, with the intent to roughly estimate photon heating [LIT82b].

9. Data for Br, Rb, I, and Cs were taken from incomplete fission-product evaluations [LIT82c].

10. This is ENDF/B-V.0 for 89Y after modification by evaluator to get better agreement with ENDL85 [LIT85a, LIT85b].

11. The following files for Zr have been replaced by the indicated ZAID, eliminating the rare problem of having a secondary neutron energy greater than the incident neutron energy caused by an ENDF/B-V.0 evaluation problem [SEA92]. Note that this correction has been made for the ENDF/B-VI evaluation. 40000.50c rmccs -> 40000.56c misc5xs 40000.50d drmccs -> 40000.56d misc5xs 40000.51c endf5p -> 40000.57c misc5xs 40000.51d dre5 -> 40000.57d misc5xs 40000.53c eprixs -> 40000.58c misc5xs

12. The ZAIDs for ENDL-based average fission product data files have been changed for the latest library, ENDL92, to 49120.42c and 49125.42c. Z is now set to 49 to ensure that the appropriate atomic fraction and photon transport library is used [FRA95, FRA96a].

13. The LANL/T-16 evaluation for I-127 was accepted for ENDF/B-VI.2 with modifications. These data are processed from the original LANL/T-16 evaluation.

14. Photon production data for Gd were added to the ENDF/B-V.0 neutron cross sections by T-16. These data are valid only to 1 MeV [LIT86a].

15. There was a processing problem for the URES library that affected the photon production data for 182, 183, 184, 186W, 232Th and 238U. The URESA library contains the same ACE files as the URES library except that photon-production data for the affected isotopes is zeroed. The IDs for the affected isotopes have been

changed from "49c" to "48c" Heating numbers in the unresolved region are known to be incorrect.

16. Photon production data for 233U were added by LANL to the original evaluation in 1981.

17. Lumped fission products [FOS82].

5 Neutron Discrete-Energy Cross-Section Libraries

Table 9 lists all the discrete-energy neutron data libraries maintained by LANL's X-Division. The entries in each of the columns are the same as in Section 4.

Table 9: Discrete-energy neutron data libraries

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\bar{\nu}$	CP	DN	UR	Notes
						Z = 1, hydrogen								
H-1														
1001.50d	0.9992	drmccs	B-V.0	1977	293.6	3175	263	20	yes	no	no	no	no	
H-2														
1002.55d	1.9968	drmccs	LANL/T	1982	293.6	5343	263	20	yes	no	no	no	no	
1002.50d	1.9968	dre5	B-V.0	1967	293.6	4686	263	20	yes	no	no	no	no	
H-3														
1003.50d	2.9901	drmccs	B-V.0	1965	293.6	2807	263	20	no	no	no	no	no	
						Z = 2, helium								
He-3														
2003.50d	2.9901	drmccs	B-V.0	1971	293.6	2612	263	20	no	no	no	no	no	
He-4														
2004.50d	4.0015	drmccs	B-V.0	1973	293.6	2651	263	20	no	no	no	no	no	
						Z = 3, lithium								
Li-6														
3006.50d	5.9634	drmccs	B-V.0	1977	293.6	8716	263	20	yes	no	no	no	no	
Li-7														
3007.55d	6.9557	drmccs	B-V.2	1984	293.6	12647	263	20	yes	no	no	no	no	
3007.50d	6.9557	dre5	B-V.0	1972	293.6	4935	263	20	yes	no	no	no	no	
						Z = 4, beryllium								
Be-9														
4009.50d	8.9348	drmccs	B-V.0	1976	293.6	8756	263	20	yes	no	no	no	no	
						Z = 5, boron								
B-10														

Table 9: Discrete-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
5010.50d	9.9269	drmccs	B-V.0	1977	293.6	12322	263	20	yes	no	no	no	no	
B-11														
5011.56d	10.9147	newxsd	LANL/T	1986	293.6	17348	263	20	yes	no	no	no	no	
5011.55d	10.915	drmccs	B-V.0:T	1971[4]	293.6	7106	263	20	yes	no	no	no	no	
5011.50d	10.915	dre5	B-V.0	1974	293.6	2812	263	20	no	no	no	no	no	
				Z = 6, carbon										
C-0														
6000.50d	11.8969	drmccs	B-V.0	1977	293.6	16844	263	20	yes	no	no	no	no	
C-12														
6012.50d	11.8969	drmccs[5]	B-V.0	1977	293.6	16844	263	20	yes	no	no	no	no	
				Z = 7, nitrogen										
N-14														
7014.50d	13.883	drmccs	B-V.0	1973	293.6	26793	263	20	yes	no	no	no	no	
N-15														
7015.55d	14.871	drmccs	LANL/T	1983	293.6	15273	263	20	yes	no	no	no	no	
				Z = 8, oxygen										
O-16														
8016.50d	15.858	drmccs	B-V.0	1972	293.6	20455	263	20	yes	no	no	no	no	
				Z = 9, fluorine										
F-19														
9019.51d	18.835	drmccs	B-V.0	1976	293.6	23156	263	20	yes	no	no	no	no	
9019.50d	18.835	dre5	B-V.0	1976	293.6	23156	263	20	yes	no	no	no	no	
				Z = 11, sodium										
Na-23														
11023.51d	22.792	drmccs	B-V.0	1977	293.6	41665	263	20	yes	no	no	no	no	

Table 9: Discrete-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
11023.50d	22.792	dre5	B-V.0	1977	293.6	41665	263	20	yes	no	no	no	no	
Z = 12, magnesium														
Mg-0														
12000.51d	24.0963	drmccs	B-V.0	1978	293.6	14070	263	20	yes	no	no	no	no	
12000.50d	24.0963	dre5	B-V.0	1978	293.6	14070	263	20	yes	no	no	no	no	
Z = 13, aluminum														
Al-27														
13027.50d	26.75	drmccs	B-V.0	1973	293.6	41947	263	20	yes	no	no	no	no	
Z = 14, silicon														
Si-0														
14000.51d	27.844	drmccs	B-V.0	1976	293.6	69498	263	20	yes	no	no	no	no	
14000.50d	27.844	dre5	B-V.0	1976	293.6	69498	263	20	yes	no	no	no	no	
Z = 15, phosphorus														
P-31														
15031.51d	30.708	drmccs	B-V.0	1977	293.6	5761	263	20	yes	no	no	no	no	
15031.50d	30.708	dre5	B-V.0	1977	293.6	5761	263	20	yes	no	no	no	no	
Z = 16, sulfur														
S-32														
16032.51d	31.697	drmccs	B-V.0	1977	293.6	6302	263	20	yes	no	no	no	no	
16032.50d	31.697	dre5	B-V.0	1977	293.6	6302	263	20	yes	no	no	no	no	
Z = 17, chlorine														
Cl-0														
17000.51d	35.148	drmccs	B-V.0	1967	293.6	18209	263	20	yes	no	no	no	no	
17000.50d	35.148	dre5	B-V.0	1967	293.6	18209	263	20	yes	no	no	no	no	
Z = 18, argon														

Table 9: Discrete-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
Ar-0														
18000.35d	39.6048	drmccs	LLNL	<1985	0	14703	263	20	yes	no	no	no	no	
					$Z = 19$, potassium									
K-0														
19000.51d	38.766	drmccs	B-V.0	1974	293.6	23137	263	20	yes	no	no	no	no	
19000.50d	38.766	dre5	B-V.0	1974	293.6	23137	263	20	yes	no	no	no	no	
					$Z = 20$, calcium									
Ca-0														
20000.51d	39.736	drmccs	B-V.0	1976	293.6	29033	263	20	yes	no	no	no	no	
20000.50d	39.736	dre5	B-V.0	1976	293.6	29033	263	20	yes	no	no	no	no	
					$Z = 22$, titanium									
Ti-0														
22000.51d	47.4676	drmccs	B-V.0	1977	293.6	10453	263	20	yes	no	no	no	no	
22000.50d	47.4676	dre5	B-V.0	1977	293.6	10453	263	20	yes	no	no	no	no	
					$Z = 23$, vanadium									
V-0														
23000.51d	50.504	drmccs	B-V.0	1977	293.6	8868	263	20	yes	no	no	no	no	
23000.50d	50.504	dre5	B-V.0	1977	293.6	8868	263	20	yes	no	no	no	no	
					$Z = 24$, chromium									
Cr-0														
24000.50d	51.549	drmccs	B-V.0	1977	293.6	30714	263	20	yes	no	no	no	no	
					$Z = 25$, manganese									
Mn-55														
25055.51d	54.4661	drmccs	B-V.0	1977	293.6	9681	263	20	yes	no	no	no	no	
25055.50d	54.4661	dre5	B-V.0	1977	293.6	9681	263	20	yes	no	no	no	no	

Table 9: Discrete-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
					Z = 26, iron									
Fe-0														
26000.55d	55.365	drmccs	LANL/T	1986	293.6	72632	263	20	yes	no	no	no	no	
26000.50d	55.365	dre5	B-V.0	1978	293.6	33896	263	20	yes	no	no	no	no	
					Z = 27, cobalt									
Co-59														
27059.51d	58.4269	drmccs	B-V.0	1977	293.6	11769	263	20	yes	no	no	no	no	
27059.50d	58.4269	dre5	B-V.0	1977	293.6	11769	263	20	yes	no	no	no	no	
					Z = 28, nickel									
Ni-0														
28000.50d	58.1826	drmccs	B-V.0	1977	293.6	21998	263	20	yes	no	no	no	no	
					Z = 29, copper									
Cu-0														
29000.50d	63.546	drmccs	B-V.0	1978	293.6	12777	263	20	yes	no	no	no	no	
					Z = 31, gallium									
Ga-0														
31000.50d	69.1211	drmccs	B-V.0	1980	293.6	6211	263	20	yes	no	no	no	no	
					Z = 33, arsenic									
As-75														
33075.35d	74.278	drmccs	B-V.0	1974	0	8480	263	20	yes	no	no	no	no	
					Z = 36, krypton									
Kr-78														
36078.50d	77.251	drmccs	B-V.0	1978	293.6	4358	263	20	no	no	no	no	no	
Kr-80														
36080.50d	79.2298	drmccs	B-V.0	1978	293.6	4276	263	20	no	no	no	no	no	

Table 9: Discrete-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
Kr-82														
36082.50d	81.2098	drmccs	B-V.0	1978	293.6	4266	263	20	no	no	no	no	no	
Kr-83														
36083.50d	82.2018	drmccs	B-V.0	1978	293.6	4359	263	20	no	no	no	no	no	
Kr-84														
36084.50d	83.1906	drmccs	B-V.0	1978	293.6	4463	263	20	no	no	no	no	no	
Kr-86														
36086.50d	85.1726	drmccs	B-V.0	1975	293.6	4301	263	20	no	no	no	no	no	
Z = 39, yttrium														
Y-89														
39089.50d	88.1421	dre5	B-V.0[10]	1985	293.6	2311	263	20	no	no	no	no	no	
Z = 40, zirconium														
Zr-0														
40000.56d	90.436	misc5xs[7,11]	B-V:X	1976	300	5400	263	20	no	no	no	no	no	
40000.57d	90.436	misc5xs[7,11]	B-V:X	1976	300	5400	263	20	no	no	no	no	no	
Z = 41, niobium														
Nb-93														
41093.51d	92.1051	drmccs	B-V.0	1974	293.6	10332	263	20	yes	no	no	no	no	
41093.50d	92.1051	dre5	B-V.0	1974	293.6	10332	263	20	yes	no	no	no	no	
Z = 42, molybdenum														
Mo-0														
42000.51d	95.116	drmccs	B-V.0	1979	293.6	7754	263	20	yes	no	no	no	no	
42000.50d	95.116	dre5	B-V.0	1979	293.6	7754	263	20	yes	no	no	no	no	
Z = 45, rhodium														
Rh-103														

Table 9: Discrete-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
45103.50d	102.021	drmccs	B-V.0	1978	293.6	4663	263	20	no	no	no	no	no	
Rh-117														
45117.90d	115.545	drmccs	LANL/T	1982	293.6	9507	263	20	yes	no	no	no	no	1
				$Z = 46$, palladium										
Pd-119														
46119.90d	117.526	drmccs	LANL/T	1982	293.6	9542	263	20	yes	no	no	no	no	1
				$Z = 47$, silver										
Ag-0														
47000.55d	106.942	drmccs	LANL/T	1984	293.6	12409	263	20	yes	no	no	no	no	
Ag-107														
47107.50d	105.987	drmccs	B-V.0	1978	293.6	4083	263	20	no	no	no	no	no	
Ag-109														
47109.50d	107.969	drmccs	B-V.0	1978	293.6	3823	263	20	no	no	no	no	no	
				$Z = 48$, cadmium										
Cd-0														
48000.51d	111.46	drmccs	B-V.0	1974	293.6	3026	263	20	no	no	no	no	no	
48000.50d	111.46	dre5	B-V.0	1974	293.6	3026	263	20	no	no	no	no	no	
				$Z = 50$, tin										
Sn-120														
50120.35d	116.4906	drmccs	LLNL	<1985	0	8963	263	20	yes	no	no	no	no	1
				$Z = 56$, barium										
Ba-138														
56138.50d	136.715	drmccs	B-V.0	1978	293.6	6320	263	20	yes	no	no	no	no	
				$Z = 62$, samarium										
Sm-149														

Continued on next page.

Table 9: Discrete-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	E_{max} (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
62149.50d	147.638	dre5	B-V.0	1978	293.6	4429	263	20	no	no	no	no	no	
					Z = 63, europium									
Eu-0														
63000.35d	150.6546	drmccs	LLNL	<1985	0	6654	263	20	yes	no	no	no	no	
Eu-151														
63151.55d	149.623	newxsd	LANL/T	1986	293.6	35199	263	20	yes	no	no	no	no	
63151.50d	149.623	drmccs	B-V.0	1977	293.6	10013	263	20	yes	no	no	no	no	
Eu-152														
63152.50d	150.62	dre5	B-V.0	1973	293.6	5655	263	20	no	no	no	no	no	
Eu-153														
63153.55d	151.608	newxsd	LANL/T	1986	293.6	36372	263	20	yes	no	no	no	no	
63153.50d	151.607	drmccs	B-V.0	1978	293.6	11244	263	20	yes	no	no	no	no	
Eu-154														
63154.50d	152.6	dre5	B-V.0	1973	293.6	5458	263	20	no	no	no	no	no	
					Z = 64, gadolinium									
Gd-0														
64000.35d	155.8991	drmccs	LLNL	<1985	0	6833	263	20	yes	no	no	no	no	
Gd-152														
64152.50d	150.615	dre5	B-V.0	1977	293.6	5899	263	20	no	no	no	no	no	
Gd-154														
64154.50d	152.599	dre5	B-V.0	1977	293.6	5930	263	20	no	no	no	no	no	
Gd-155														
64155.50d	153.592	dre5	B-V.0	1977	293.6	6528	263	20	no	no	no	no	no	
Gd-156														
64156.50d	154.583	dre5	B-V.0	1977	293.6	6175	263	20	no	no	no	no	no	

Table 9: Discrete-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
Gd-157														
64157.50d	155.576	dre5	B-V.0	1977	293.6	6346	263	20	no	no	no	no	no	
Gd-158														
64158.50d	156.567	dre5	B-V.0	1977	293.6	5811	263	20	no	no	no	no	no	
Gd-160														
64160.50d	158.553	dre5	B-V.0	1977	293.6	5030	263	20	no	no	no	no	no	
						Z = 67, holmium								
Ho-165														
67165.55d	163.513	newxsd	LANL/T	1986	293.6	42266	263	20	yes	no	no	no	no	
67165.35d	163.5135	drmccs	LLNL	<1985	0	7019	263	20	yes	no	no	no	no	
						Z = 72, hafnium								
Hf-0														
72000.50d	176.954	newxsd	B-V.0	1976	293.6	4751	263	20	no	no	no	no	no	
						Z = 73, tantalum								
Ta-181														
73181.51d	179.4	drmccs	B-V.0	1972	293.6	16361	263	20	yes	no	no	no	no	
73181.50d	179.4	dre5	B-V.0	1972	293.6	16361	263	20	yes	no	no	no	no	
						Z = 74, tungsten								
W-0														
74000.55d	182.277	drmccs	B-V.2	1982	293.6	34272	263	20	yes	no	no	no	no	
W-182														
74182.55d	180.39	drmccs	B-V.2	1980	293.6	26387	263	20	yes	no	no	no	no	
74182.50d	180.39	dre5	B-V.0	1973	293.6	17729	263	20	yes	no	no	no	no	
W-183														
74183.55d	181.38	drmccs	B-V.2	1980	293.6	26320	263	20	yes	no	no	no	no	

Table 9: Discrete-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
74183.50d	181.38	dre5	B-V.0	1973	293.6	19443	263	20	yes	no	no	no	no	
W-184														
74184.55d	182.37	drmccs	B-V.2	1980	293.6	26110	263	20	yes	no	no	no	no	
74184.50d	182.37	dre5	B-V.0	1973	293.6	17032	263	20	yes	no	no	no	no	
W-186														
74186.55d	184.36	drmccs	B-V.2	1980	293.6	26281	263	20	yes	no	no	no	no	
74186.50d	184.36	dre5	B-V.0	1973	293.6	17018	263	20	yes	no	no	no	no	
				$Z = 75$, rhenium										
Re-185														
75185.50d	183.364	drmccs	B-V.0	1968	293.6	4252	263	20	no	no	no	no	no	
Re-187														
75187.50d	185.35	drmccs	B-V.0	1968	293.6	4675	263	20	no	no	no	no	no	
				$Z = 78$, platinum										
Pt-0														
78000.35d	193.4141	drmccs	LLNL	<1985	0	6933	263	20	yes	no	no	no	no	
				$Z = 79$, gold										
Au-197														
79197.56d	195.274	newxsd	LANL/T	1984	293.6	38801	263	20	yes	no	no	no	no	
79197.55d	195.274	drmccs	LANL/T	1983[4]	293.6	7883	263	20	yes	no	no	no	no	
79197.50d	195.274	dre5	B-V.0	1977	293.6	4882	263	20	no	no	no	no	no	
				$Z = 82$, lead										
Pb-0														
82000.50d	205.43	drmccs	B-V.0	1976	293.6	20649	263	20	yes	no	no	no	no	
				$Z = 83$, bismuth										
Bi-209														

Table 9: Discrete-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
83209.51d	207.185	drmccs	B-V.0	1980	293.6	7516	263	20	yes	no	no	no	no	
83209.50d	207.185	dre5	B-V.0	1980	293.6	7516	263	20	yes	no	no	no	no	

Z = 90, thorium

Th-232

| 90232.51d | 230.04 | drmccs | B-V.0 | 1977 | 293.6 | 11937 | 263 | 20 | yes | both | no | no | no | |
| 90232.50d | 230.04 | dre5 | B-V.0 | 1977 | 293.6 | 11937 | 263 | 20 | yes | both | no | no | no | |

Z = 91, protactinium

Pa-233

| 91233.51d | 231.038 | drmccs | B-V.0 | 1974 | 293.6 | 3700 | 263 | 20 | no | tot | no | no | no | |
| 91233.50d | 231.038 | dre5 | B-V.0 | 1974 | 293.6 | 3700 | 263 | 20 | no | tot | no | no | no | |

Z = 92, uranium

U-233

| 92233.50d | 231.043 | drmccs | B-V.0 | 1978 | 293.6 | 4172 | 263 | 20 | no | both | no | no | no | |

U-234

| 92234.51d | 232.03 | drmccs | B-V.0 | 1978 | 293.6 | 4833 | 263 | 20 | no | tot | no | no | no | |
| 92234.50d | 232.03 | dre5 | B-V.0 | 1978 | 293.6 | 4833 | 263 | 20 | no | tot | no | no | no | |

U-235

| 92235.50d | 233.025 | drmccs | B-V.0 | 1977 | 293.6 | 11788 | 263 | 20 | yes | both | no | no | no | |

U-236

| 92236.51d | 234.018 | drmccs | B-V.0 | 1978 | 293.6 | 4838 | 263 | 20 | no | tot | no | no | no | |
| 92236.50d | 234.018 | dre5 | B-V.0 | 1978 | 293.6 | 4838 | 263 | 20 | no | tot | no | no | no | |

U-237

| 92237.51d | 235.012 | drmccs | B-V.0 | 1976 | 293.6 | 8851 | 263 | 20 | yes | tot | no | no | no | |
| 92237.50d | 235.012 | dre5 | B-V.0 | 1976 | 293.6 | 8851 | 263 | 20 | yes | tot | no | no | no | |

U-238

Continued on next page.

Table 9: Discrete-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
92238.50d	236.006	drmccs	B-V.0	1979	293.6	16815	263	20	yes	both	no	no	no	
U-239														
92239.35d	237.0007	drmccs	LLNL	<1985	0	9286	263	20	yes	pr	no	no	no	
				Z = 93, neptunium										
Np-237														
93237.55d	235.012	drmccs	LANL/T	1984	293.6	20484	263	20	no	both	no	no	no	
93237.50d	235.012	dre5	B-V.0	1978	293.6	5267	263	20	no	tot	no	no	no	
				Z = 94, plutonium										
Pu-238														
94238.51d	236.167	drmccs	B-V.0	1978	293.6	5404	263	20	no	tot	no	no	no	
94238.50d	236.167	dre5	B-V.0	1978	293.6	5404	263	20	no	tot	no	no	no	
Pu-239														
94239.55d	236.999	drmccs	B-V.2	1983	293.6	20727	263	20	yes	both	no	no	no	
94239.50d	236.999	dre5	B-V.0	1976	293.6	12631	263	20	yes	both	no	no	no	
Pu-240														
94240.50d	237.992	drmccs	B-V.0	1977	293.6	9569	263	20	yes	both	no	no	no	
Pu-241														
94241.51d	238.978	drmccs	B-V.0	1977	293.6	11575	263	20	yes	both	no	no	no	
94241.50d	238.978	dre5	B-V.0	1977	293.6	11575	263	20	yes	both	no	no	no	
Pu-242														
94242.51d	239.979	drmccs	B-V.0	1978	293.6	12463	263	20	yes	both	no	no	no	
94242.50d	239.979	dre5	B-V.0	1978	293.6	12463	263	20	yes	both	no	no	no	
				Z = 95, americium										
Am-241														
95241.51d	238.986	drmccs	B-V.0	1978	293.6	9971	263	20	yes	tot	no	no	no	

Table 9: Discrete-energy neutron data libraries (continued)

ZAID	AWR	Library Name	Source	Eval Date	Temp (K)	Length (words)	NE	$E_{\max}$ (MeV)	GPD	$\overline{\nu}$	CP	DN	UR	Notes
95241.50d	238.986	dre5	B-V.0	1978	293.6	9971	263	20	yes	tot	no	no	no	
Am-242														
95242.51d	239.98	drmccs	B-V.0	1978	293.6	9048	263	20	yes	tot	no	no	no	
95242.50d	239.98	dre5	B-V.0	1978	293.6	9048	263	20	yes	tot	no	no	no	
Am-243														
95243.51d	240.973	drmccs	B-V.0	1978	293.6	11742	263	20	yes	tot	no	no	no	
95243.50d	240.973	dre5	B-V.0	1978	293.6	11742	263	20	yes	tot	no	no	no	
				Z = 96, curium										
Cm-242														
96242.51d	239.979	drmccs	B-V.0	1978	293.6	8903	263	20	yes	tot	no	no	no	
96242.50d	239.979	dre5	B-V.0	1978	293.6	8903	263	20	yes	tot	no	no	no	
Cm-244														
96244.51d	241.966	drmccs	B-V.0	1978	293.6	9509	263	20	yes	tot	no	no	no	
96244.50d	241.966	dre5	B-V.0	1978	293.6	9509	263	20	yes	tot	no	no	no	

5.1 Notes

1. Lumped fission products [FOS82, SEA85].

6 Coupled Neutron-photon multigroup data library

Currently, only one coupled neutron-photon multigroup library is supported by the Data Team, MGXSNP [LIT87]. MGXSNP is comprised of 30 group neutron and 12 group photon data primarily based on ENDF/B-V for 95 nuclides. The `MCNP6`-compatible multigroup data library was produced from the original Sn multigroup libraries MENDF5 and MENDF5G using the code CRSRD in April 1987 [LIT86b, WAG94]. The original neutron data library MENDF5 was produced using the "TD Division Weight Function," also called "CLAW" by the processing code NJOY [SEA76, SEA80, MAC94a]. This weight function is a combination of a Maxwellian thermal $+ 1/E +$ fission $+$ fusion peak at 14.0 MeV. The data library contains no upscatter groups or self-shielding and is most applicable for fast systems. All cross sections are for room temperature, 300K. P0 through P4 scattering matrices from the original library were processed by CRSRD into angular distributions for `MCNP6` using the Carter-Forest equiprobable bin treatment. When available, both total and prompt nubar data are provided. The edit reactions available for each `ZAID` are fully described in [LIT87].

Tables 10 and 11 describes the MGXSNP data library. The `ZAID`s used for this library correspond to the source evaluation in the same manner as the `ZAID` for the continuous-energy and discrete data; as an example, the same source evaluation for natural iron was used to produce 26000.55c, 26000.55d and 26000.55m. For coupled neutron-photon problems, specifying a particular isotope on a material card will invoke the neutron set for that isotope and the corresponding photon set for that element. For example, an entry of "1003" on a material card will cause `MCNP6` to use `ZAID`=1003.50m for neutron data and 1000.01g for photon data.

Table 10: Coupled neutron-photon multigroup data library—neutron

ZAID	Neutron AWR	Length	Notes
	Z = 1, hydrogen		
H-1			
1001.50m	0.999172	3249	
H-2			
1002.55m	1.99681	3542	
H-3			
1003.50m	2.990154	1927	
	Z = 2, helium		
He-3			
2003.50m	2.990134	1843	
He-4			
2004.50m	3.968238	1629	
	Z = 3, lithium		
Li-6			
3006.50m	5.963479	3566	
Li-7			
3007.55m	6.955768	3555	
	Z = 4, beryllium		
Be-7			
4007.35m	6.949815	1598	
Be-9			
4009.50m	8.934807	3014	
	Z = 5, boron		
B-10			
5010.50m	9.92697	3557	
B-11			
5011.56m	10.914679	2795	
	Z = 6, carbon		
C-0			
6000.50m	11.896972	2933	1
C-12			
6012.50m	11.896972	2933	1
	Z = 7, nitrogen		
N-14			
7014.50m	13.882849	3501	
N-15			
7015.55m	14.871314	2743	
	Z = 8, oxygen		
O-16			
8016.50m	15.857588	3346	
	Z = 9, fluorine		
F-19			
9019.50m	18.835289	3261	
	Z = 11, sodium		
Na-23			
11023.50m	22.792388	2982	

Continued on next page.

Table 10: Coupled neutron-photon multigroup data library—neutron (continued)

ZAID	Neutron AWR	Length	Notes
Z = 12, magnesium			
Mg-0			
12000.50m	24.096375	3802	
Z = 13, aluminum			
Al-27			
13027.50m	26.749887	3853	
Z = 14, silicon			
Si-0			
14000.50m	27.844378	3266	
Z = 15, phosphorus			
P-31			
15031.50m	30.707833	2123	
Z = 16, sulfur			
S-32			
16032.50m	31.697571	2185	
Z = 17, chlorine			
Cl-0			
17000.50m	35.148355	2737	
Z = 18, argon			
Ar-0			
18000.35m	39.605021	2022	
Z = 19, potassium			
K-0			
19000.50m	38.762616	2833	
Z = 20, calcium			
Ca-0			
20000.50m	39.734053	3450	
Z = 22, titanium			
Ti-0			
22000.50m	47.455981	3015	
Z = 23, vanadium			
V-0			
23000.50m	50.504104	2775	
Z = 24, chromium			
Cr-0			
24000.50m	51.549511	3924	
Z = 25, manganese			
Mn-55			
25055.50m	54.466367	2890	
Z = 26, iron			
Fe-0			
26000.55m	55.366734	4304	
Z = 27, cobalt			
Co-59			
27059.50m	58.427218	2889	
Z = 28, nickel			
Ni-0			

ZAID	Neutron AWR	Length	Notes
28000.50m	58.182926	3373	
	Z = 29, copper		
Cu-0			
29000.50m	62.999465	2803	
	Z = 31, gallium		
Ga-0			
31000.50m	69.124611	2084	
	Z = 33, arsenic		
As-75			
33075.35m	74.27834	2022	
	Z = 36, krypton		
Kr-78			
36078.50m	77.2514	2108	
Kr-80			
36080.50m	79.230241	2257	
Kr-82			
36082.50m	81.210203	2312	
Kr-83			
36083.50m	82.202262	2141	
Kr-84			
36084.50m	83.191072	2460	
Kr-86			
36086.50m	85.173016	2413	
	Z = 40, zirconium		
Zr-0			
40000.50m	90.440039	2466	
	Z = 41, niobium		
Nb-93			
41093.50m	92.108717	2746	
	Z = 42, molybdenum		
Mo-0			
42000.50m	95.107162	1991	
	Z = 45, rhodium		
Rh-103			
45103.50m	102.021993	2147	
Rh-117			
45117.90m	115.544386	2709	2
	Z = 46, palladium		
Pd-119			
46119.90m	117.525231	2629	2
	Z = 47, silver		
Ag-0			
47000.55m	106.941883	2693	
Ag-107			
47107.50m	105.987245	2107	
Ag-109			
47109.50m	107.969736	1924	

Continued on next page.

ZAID	Neutron AWR	Length	Notes
	Z = 48, cadmium		
Cd-0			
48000.50m	111.442911	1841	
	Z = 50, tin		
Sn-120			
50120.35m	115.995479	1929	2
Sn-998			
50998.99m	228.025301	1382	2
Sn-999			
50999.99m	228.025301	1413	2
	Z = 54, xenon		
Xe-0			
54000.35m	130.171713	1929	
	Z = 56, barium		
Ba-138			
56138.50m	136.72123	2115	
	Z = 63, europium		
Eu-0			
63000.35m	150.654333	1933	
Eu-151			
63151.55m	149.623005	2976	
Eu-153			
63153.55m	151.608005	2691	
	Z = 64, gadolinium		
Gd-0			
64000.35m	155.898915	1929	
	Z = 67, holmium		
Ho-165			
67165.55m	163.512997	2526	
	Z = 73, tantalum		
Ta-181			
73181.50m	179.394458	2787	
	Z = 74, tungsten		
W-0			
74000.55m	182.270446	4360	
W-182			
74182.55m	180.386082	3687	
W-183			
74183.55m	181.379499	3628	
W-184			
74184.55m	182.371615	3664	
W-186			
74186.55m	184.357838	3672	
	Z = 75, rhenium		
Re-185			
75185.50m	183.365036	1968	
Re-187			

Continued on next page.

Table 10: Coupled neutron-photon multigroup data library—neutron (continued)

ZAID	Neutron AWR	Length	Notes
75187.50m	185.350629	2061	
Z = 78, platinum			
Pt-0			
78000.35m	193.415026	1929	
Z = 79, gold			
Au-197			
79197.56m	195.274027	3490	
Z = 82, lead			
Pb-0			
82000.50m	205.437162	3384	
Z = 83, bismuth			
Bi-209			
83209.50m	207.186158	2524	
Z = 90, thorium			
Th-232			
90232.50m	230.045857	2896	
Z = 91, protactinium			
Pa-233			
91233.50m	231.039442	1970	
Z = 92, uranium			
U-233			
92233.50m	231.038833	1988	
U-234			
92234.50m	232.031554	2150	
U-235			
92235.50m	233.025921	3164	
U-236			
92236.50m	234.018959	2166	
U-237			
92237.50m	235.013509	2174	
U-238			
92238.50m	236.006966	3553	
U-239			
92239.35m	236.997601	2147	
Z = 93, neptunium			
Np-237			
93237.55m	235.012957	2812	
Z = 94, plutonium			
Pu-238			
94238.50m	236.005745	2442	
Pu-239			
94239.55m	236.99974	3038	
Pu-240			
94240.50m	237.992791	3044	
Pu-241			
94241.50m	238.987218	2856	
Pu-242			

Continued on next page.

Table 10: Coupled neutron-photon multigroup data library—neutron (continued)

ZAID	Neutron AWR	Length	Notes
94242.50m	239.980508	2956	
	Z = 95, americium		
Am-241			
95241.50m	238.987196	2535	
Am-242			
95242.50m	239.981303	2284	
Am-243			
95243.50m	240.974535	2480	
	Z = 96, curium		
Cm-242			
96242.50m	239.980599	1970	
Cm-244			
96244.50m	241.967311	1950	

6.1 Notes

1. The neutron transport data for ZAIDs 6012.50m and 6000.50m are the same.

2. Lumped fission products [FOS82, SEA85].

Table 11: Coupled neutron-photon multigroup data library—photon

ZAID	Photon AWR	Length	Notes
	Z = 1, hydrogen		
H-0			
1000.01g	0.999317	583	
	Z = 2, helium		
He-0			
2000.01g	3.968217	583	
	Z = 3, lithium		
Li-0			
3000.01g	6.881312	583	
	Z = 4, beryllium		
Be-0			
4000.01g	8.934763	557	
	Z = 5, boron		
B-0			
5000.01g	10.717168	583	
	Z = 6, carbon		
C-0			
6000.01g	11.907955	583	
	Z = 7, nitrogen		
N-0			
7000.01g	13.886438	583	
	Z = 8, oxygen		

Continued on next page.

Table 11: Coupled neutron-photon multigroup data library—photon (continued)

ZAID	Photon AWR	Length	Notes
O-0			
8000.01g	15.861942	583	
	Z = 9, fluorine		
F-0			
9000.01g	18.835197	583	
	Z = 11, sodium		
Na-0			
11000.01g	22.792275	583	
	Z = 12, magnesium		
Mg-0			
12000.01g	24.096261	583	
	Z = 13, aluminum		
Al-0			
13000.01g	26.749756	583	
	Z = 14, silicon		
Si-0			
14000.01g	27.844241	583	
	Z = 15, phosphorus		
P-0			
15000.01g	30.707682	583	
	Z = 16, sulfur		
S-0			
16000.01g	31.788823	583	
	Z = 17, chlorine		
Cl-0			
17000.01g	35.14818	583	
	Z = 18, argon		
Ar-0			
18000.01g	39.604489	557	
	Z = 19, potassium		
K-0			
19000.01g	38.762423	583	
	Z = 20, calcium		
Ca-0			
20000.01g	39.733857	583	
	Z = 22, titanium		
Ti-0			
22000.01g	47.455747	583	
	Z = 23, vanadium		
V-0			
23000.01g	50.503856	583	
	Z = 24, chromium		
Cr-0			
24000.01g	51.549253	583	
	Z = 25, manganese		
Mn-0			
25000.01g	54.466099	583	

Continued on next page.

Table 11: Coupled neutron-photon multigroup data library—photon (continued)

ZAID	Photon AWR	Length	Notes
	Z = 26, iron		
Fe-0			
26000.01g	55.366466	583	
	Z = 27, cobalt		
Co-0			
27000.01g	58.42693	583	
	Z = 28, nickel		
Ni-0			
28000.01g	58.182641	583	
	Z = 29, copper		
Cu-0			
29000.01g	62.999157	583	
	Z = 31, gallium		
Ga-0			
31000.01g	69.12427	583	
	Z = 33, arsenic		
As-0			
33000.01g	74.277979	557	
	Z = 36, krypton		
Kr-0			
36000.01g	83.080137	583	
	Z = 40, zirconium		
Zr-0			
40000.01g	90.439594	583	
	Z = 41, niobium		
Nb-0			
41000.01g	92.108263	583	
	Z = 42, molybdenum		
Mo-0			
42000.01g	95.106691	583	
	Z = 45, rhodium		
Rh-0			
45000.01g	102.02149	583	
	Z = 46, palladium		
Pd-0			
46000.01g	105.513949	557	
	Z = 47, silver		
Ag-0			
47000.01g	106.941685	583	
	Z = 48, cadmium		
Cd-0			
48000.01g	111.442363	583	
	Z = 50, tin		
Sn-0			
50000.01g	117.667336	557	
	Z = 54, xenon		
Xe-0			

Table 11: Coupled neutron-photon multigroup data library—photon (continued)

ZAID	Photon AWR	Length	Notes
54000.01g	130.165202	557	
	Z = 56, barium		
Ba-0			
56000.01g	136.146809	583	
	Z = 63, europium		
Eu-0			
63000.01g	150.657141	557	
	Z = 64, gadolinium		
Gd-0			
64000.01g	155.900158	557	
	Z = 67, holmium		
Ho-0			
67000.01g	163.513493	583	
	Z = 73, tantalum		
Ta-0			
73000.01g	179.393456	583	
	Z = 74, tungsten		
W-0			
74000.01g	182.269548	583	
	Z = 75, rhenium		
Re-0			
75000.01g	184.607108	583	
	Z = 78, platinum		
Pt-0			
78000.01g	193.404225	557	
	Z = 79, gold		
Au-0			
79000.01g	195.274513	583	
	Z = 82, lead		
Pb-0			
82000.01g	205.436151	583	
	Z = 83, bismuth		
Bi-0			
83000.01g	207.185136	583	
	Z = 90, thorium		
Th-0			
90000.01g	230.044724	583	
	Z = 91, protactinium		
Pa-0			
91000.01g	229.05116	479	
	Z = 92, uranium		
U-0			
92000.01g	235.984125	583	
	Z = 93, neptunium		
Np-0			
93000.01g	235.011799	479	
	Z = 94, plutonium		

Continued on next page.

Table 11: Coupled neutron-photon multigroup data library—photon (continued)

ZAID	Photon AWR	Length	Notes
Pu-0			
94000.01g	241.967559	583	1

6.2 Notes

1. Photon transport data are not provided for Z>94.

7 Photoatomic Data

There are four photon transport libraries maintained by X Division and distributed with `MCNP6`: MCPLIB, MCPLIB02, MCPLIB03, and MCPLIB04. Their lineage is summarized below.

The official version of MCPLIB is unchanged since 1982 [LIT82a]. Versions of MCPLIB existed prior to 1982. MCPLIB contains data from several sources. For Z equal to 1 to 94 (excluding Z equal to 84, 85, 87, 88, 89, 91, and 93), the cross-section data for incident energies from 1 keV to 100 MeV and all form-factor data are from the ENDF/B-IV evaluation, which is available from RSICC as data package DLC 7e. The excluded elements are tabulated only on the energy range from 1 keV to 15 MeV and trace their cross-section data back to the Storm and Israel 1970 data compilation [STO70], which is available from RSICC as data package DLC 15. The form-factor data for the excluded elements is of forgotten origin. The fluorescence data were produced by Everett and Cashwell [EVE73] from the Storm and Israel 1970 data, supplemented as necessary. MCPLIB does not contain momentum profile (CDBD) data.

MCPLIB02 was officially released in 1993 [HUG96] and was created as an extension to MCPLIB. The form-factor and fluorescence data on MCPLIB and MCPLIB02 are identical. The cross-section data below 10 MeV are also identical. From the maximum energy on the original MCPLIB table up to 100 GeV, the cross-section data are derived from EPDL89 [CUL89]. Between 10 MeV and the highest energy of the MCNPLIB data, the data are smoothly transitioned. MCPLIB02 does not contain momentum profile (CDBD) data.

MCPLIB03 was officially released in 2002 [WHI02a] as another extension of the MCPLIB/MCPLIB02 data set. The cross-section, form-factor, and fluorescence data on MCPLIB02 and MCPLIB03 are identical. The only change is the addition of the momentum profile (CDBD) data, derived from the work of Biggs, Mendelsohn, and Mann [BIG75].

MCNPLIB04 was officially released in 2002 [WHI02b]. The cross-section, form-factor, and fluorescence data are all derived from the ENDF/B-VI.8 data library that was derived from EPDL97 [CUL97]. Cross-section data are given for incident photon energies from 1 keV to 1 GeV. Fluorescence data are derived from the atomic relaxation data available in ENDF/B-VI.8 but use the storage and sampling scheme defined by Everett and Cashwell [EVE73]. The momentum profile (CDBD) data are identical to the data found on MCPLIB03 [WHI02a].

The entries in each of the columns of Table 12 are described as follows:

ZAID The nuclide identification number with the form `ZZZAAA.abx` where

> `ZZZ` is the atomic number,
>
> `AAA` is the mass number (000 for naturally occurring elements),
>
> `ab` is the unique alphanumeric table identifier
>
> `x=P` for continuous-energy photon tables

Library Name of the library that contains the data file for that `ZAID`.

Library Release Date Date the library was officially released. This does not necessarily correspond to the source evaluation date; these tables contain data from many sources.

Length The total length of a particular photoatomic table in words.

Number of Energies The number of energy points (NE) on the grid used for the photoatomic cross sections for that data table. In general, a finer energy grid (or greater number of points) indicates a more accurate representation of the cross sections.

$E_{\max}$ The maximum incident photon energy for that data table in GeV. For all incident energies greater than $E_{\max}$, `MCNP6` assumes the last cross-section value given.

Cross-Section Source This entry indicates the source from which the cross-section data are derived. There are four sources for the cross-section data:

1. S&I indicates data from the Storm and Israel 1970 compilation,

2. B/IV indicates data from ENDF/B IV,

3. B/IV/89 indicates data from ENDF/B IV merged with data from EPDL89, and

4. B/VI.8 indicates data from ENDF/B VI release 8.

Form-Factor Source This entry indicates the source from which the form-factor data are derived. There are three sources for the form-factor data:

1. Unknown indicates that data date back to unknown origins,

2. B/IV indicates data from ENDF/B IV, and

3. B/VI.8 indicates data from ENDF/B VI release 8.

Fluorescence Source This entry indicates the source from which the fluorescence data are derived. There are two sources for the fluorescence data:

1. E&C indicates data from Everett and CashwellâĂŹs original work, and

2. B/VI.8 indicates data in the Everett and Cashwell format derived from ENDF/B VI release 8.

CDBD Source This entry indicates the source from which the momentum profile (CDBD) data for Doppler broadening of the Compton scattered energy are derived. Currently the only source for the CDBD data is Biggs, Mendelsohn, and Mann's 1975 compilation.

Table 12: Continuous-energy photoatomic data libraries

ZAID	Library Name	Release Date	Length words	NE	E_{max} (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
					Z = 1, hydrogen					
H-0										
1000.84p	mcplib84	2012	1898	278	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
1000.63p	mcplib63	2012	722	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
1000.04p	mcplib04	2002	1898	278	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
1000.03p	mcplib03	2002	722	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
1000.02p	mcplib02	1993	623	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
1000.01p	mcplib	1982	389	43	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 2, helium					
He-0										
2000.84p	mcplib84	2012	1970	290	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
2000.63p	mcplib63	2012	722	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
2000.04p	mcplib04	2002	1970	290	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
2000.03p	mcplib03	2002	722	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
2000.02p	mcplib02	1993	623	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
2000.01p	mcplib	1982	389	43	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 3, lithium					
Li-0										
3000.84p	mcplib84	2012	2339	335	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
3000.63p	mcplib63	2012	821	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
3000.04p	mcplib04	2002	2339	335	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
3000.03p	mcplib03	2002	821	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
3000.02p	mcplib02	1993	623	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
3000.01p	mcplib	1982	389	43	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	$E_{\max}$ (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
					Z = 4, beryllium					
Be-0										
4000.84p	mcplib84	2012	2363	339	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
4000.63p	mcplib63	2012	821	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
4000.04p	mcplib04	2002	2363	339	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
4000.03p	mcplib03	2002	821	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
4000.02p	mcplib02	1993	623	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
4000.01p	mcplib	1982	389	43	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 5, boron					
B-0										
5000.84p	mcplib84	2012	3116	448	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
5000.63p	mcplib63	2012	920	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
5000.04p	mcplib04	2002	3116	448	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
5000.03p	mcplib03	2002	920	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
5000.02p	mcplib02	1993	623	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
5000.01p	mcplib	1982	389	43	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 6, carbon					
C-0										
6000.84p	mcplib84	2012	3152	454	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
6000.63p	mcplib63	2012	920	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
6000.04p	mcplib04	2002	3152	454	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
6000.03p	mcplib03	2002	920	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
6000.02p	mcplib02	1993	623	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
6000.01p	mcplib	1982	389	43	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 7, nitrogen					

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	E_{max} (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
N-0										
7000.84p	mcplib84	2012	3194	461	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
7000.63p	mcplib63	2012	920	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
7000.04p	mcplib04	2002	3194	461	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
7000.03p	mcplib03	2002	920	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
7000.02p	mcplib02	1993	623	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
7000.01p	mcplib	1982	389	43	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 8, oxygen					
O-0										
8000.84p	mcplib84	2012	3272	474	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
8000.63p	mcplib63	2012	920	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
8000.04p	mcplib04	2002	3272	474	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
8000.03p	mcplib03	2002	920	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
8000.02p	mcplib02	1993	623	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
8000.01p	mcplib	1982	389	43	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 9, fluorine					
F-0										
9000.84p	mcplib84	2012	3206	463	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
9000.63p	mcplib63	2012	920	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
9000.04p	mcplib04	2002	3206	463	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
9000.03p	mcplib03	2002	920	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
9000.02p	mcplib02	1993	623	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
9000.01p	mcplib	1982	389	43	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 10, neon					
Ne-0										

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	E_{max} (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
10000.84p	mcplib84	2012	3278	475	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
10000.63p	mcplib63	2012	920	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
10000.04p	mcplib04	2002	3278	475	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
10000.03p	mcplib03	2002	920	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
10000.02p	mcplib02	1993	623	82	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
10000.01p	mcplib	1982	389	43	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
Z = 11, sodium										
Na-0										
11000.84p	mcplib84	2012	3995	578	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
11000.63p	mcplib63	2012	1031	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
11000.04p	mcplib04	2002	3995	578	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
11000.03p	mcplib03	2002	1031	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
11000.02p	mcplib02	1993	635	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
11000.01p	mcplib	1982	401	45	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
Z = 12, magnesium										
Mg-0										
12000.84p	mcplib84	2012	3781	541	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
12000.63p	mcplib63	2012	1039	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
12000.04p	mcplib04	2002	3781	541	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
12000.03p	mcplib03	2002	1039	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
12000.02p	mcplib02	1993	643	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
12000.01p	mcplib	1982	409	45	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
Z = 13, aluminum										
Al-0										
13000.84p	mcplib84	2012	4846	702	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	$E_{\max}$ (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
13000.63p	mcplib63	2012	1138	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
13000.04p	mcplib04	2002	4846	702	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
13000.03p	mcplib03	2002	1138	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
13000.02p	mcplib02	1993	643	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
13000.01p	mcplib	1982	409	45	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 14, silicon					
Si-0										
14000.84p	mcplib84	2012	4792	693	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
14000.63p	mcplib63	2012	1138	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
14000.04p	mcplib04	2002	4792	693	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
14000.03p	mcplib03	2002	1138	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
14000.02p	mcplib02	1993	643	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
14000.01p	mcplib	1982	409	45	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 15, phosphorus					
P-0										
15000.84p	mcplib84	2012	4498	644	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
15000.63p	mcplib63	2012	1138	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
15000.04p	mcplib04	2002	4498	644	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
15000.03p	mcplib03	2002	1138	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
15000.02p	mcplib02	1993	643	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
15000.01p	mcplib	1982	409	45	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 16, sulfur					
S-0										
16000.84p	mcplib84	2012	4654	670	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
16000.63p	mcplib63	2012	1138	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	E_{max} (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
16000.04p	mcplib04	2002	4654	670	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
16000.03p	mcplib03	2002	1138	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
16000.02p	mcplib02	1993	643	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
16000.01p	mcplib	1982	409	45	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 17, chlorine					
Cl-0										
17000.84p	mcplib84	2012	4738	684	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
17000.63p	mcplib63	2012	1138	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
17000.04p	mcplib04	2002	4738	684	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
17000.03p	mcplib03	2002	1138	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
17000.02p	mcplib02	1993	643	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
17000.01p	mcplib	1982	409	45	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 18, argon					
Ar-0										
18000.84p	mcplib84	2012	4696	677	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
18000.63p	mcplib63	2012	1138	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
18000.04p	mcplib04	2002	4696	677	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
18000.03p	mcplib03	2002	1138	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
18000.02p	mcplib02	1993	643	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
18000.01p	mcplib	1982	409	45	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 19, potassium					
K-0										
19000.84p	mcplib84	2012	5047	719	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
19000.63p	mcplib63	2012	1237	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
19000.04p	mcplib04	2002	5047	719	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	E_{max} (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
19000.03p	mcplib03	2002	1237	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
19000.02p	mcplib02	1993	643	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
19000.01p	mcplib	1982	409	45	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 20, calcium					
Ca-0										
20000.84p	mcplib84	2012	5013	712	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
20000.63p	mcplib63	2012	1245	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
20000.04p	mcplib04	2002	5013	712	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
20000.03p	mcplib03	2002	1245	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
20000.02p	mcplib02	1993	651	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
20000.01p	mcplib	1982	417	45	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 21, scandium					
Sc-0										
21000.84p	mcplib84	2012	5532	782	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
21000.63p	mcplib63	2012	1344	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
21000.04p	mcplib04	2002	5532	782	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
21000.03p	mcplib03	2002	1344	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
21000.02p	mcplib02	1993	651	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
21000.01p	mcplib	1982	417	45	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 22, titanium					
Ti-0										
22000.84p	mcplib84	2012	5742	817	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
22000.63p	mcplib63	2012	1344	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
22000.04p	mcplib04	2002	5742	817	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
22000.03p	mcplib03	2002	1344	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	E_{max} (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
22000.02p	mcplib02	1993	651	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
22000.01p	mcplib	1982	417	45	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 23, vanadium					
V-0										
23000.84p	mcplib84	2012	5814	829	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
23000.63p	mcplib63	2012	1344	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
23000.04p	mcplib04	2002	5814	829	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
23000.03p	mcplib03	2002	1344	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
23000.02p	mcplib02	1993	651	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
23000.01p	mcplib	1982	417	45	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 24, chromium					
Cr-0										
24000.84p	mcplib84	2012	5682	807	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
24000.63p	mcplib63	2012	1344	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
24000.04p	mcplib04	2002	5682	807	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
24000.03p	mcplib03	2002	1344	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
24000.02p	mcplib02	1993	651	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
24000.01p	mcplib	1982	417	45	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 25, manganese					
Mn-0										
25000.84p	mcplib84	2012	5598	793	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
25000.63p	mcplib63	2012	1344	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
25000.04p	mcplib04	2002	5598	793	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
25000.03p	mcplib03	2002	1344	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
25000.02p	mcplib02	1993	651	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	E_{max} (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
25000.01p	mcplib	1982	417	45	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
Z = 26, iron										
Fe-0										
26000.84p	mcplib84	2012	5718	813	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
26000.63p	mcplib63	2012	1344	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
26000.04p	mcplib04	2002	5718	813	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
26000.03p	mcplib03	2002	1344	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
26000.02p	mcplib02	1993	651	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
26000.01p	mcplib	1982	417	45	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
Z = 27, cobalt										
Co-0										
27000.84p	mcplib84	2012	5436	766	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
27000.63p	mcplib63	2012	1344	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
27000.04p	mcplib04	2002	5436	766	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
27000.03p	mcplib03	2002	1344	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
27000.02p	mcplib02	1993	651	84	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
27000.01p	mcplib	1982	417	45	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
Z = 28, nickel										
Ni-0										
28000.84p	mcplib84	2012	5826	831	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
28000.63p	mcplib63	2012	1356	86	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
28000.04p	mcplib04	2002	5826	831	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
28000.03p	mcplib03	2002	1356	86	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
28000.02p	mcplib02	1993	663	86	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
28000.01p	mcplib	1982	429	47	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	$E_{\max}$ (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
					Z = 29, copper					
Cu-0										
29000.84p	mcplib84	2012	5754	819	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
29000.63p	mcplib63	2012	1356	86	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
29000.04p	mcplib04	2002	5754	819	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
29000.03p	mcplib03	2002	1356	86	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
29000.02p	mcplib02	1993	663	86	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
29000.01p	mcplib	1982	429	47	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 30, zinc					
Zn-0										
30000.84p	mcplib84	2012	6288	908	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
30000.63p	mcplib63	2012	1380	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
30000.04p	mcplib04	2002	6288	908	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
30000.03p	mcplib03	2002	1380	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
30000.02p	mcplib02	1993	687	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
30000.01p	mcplib	1982	453	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 31, gallium					
Ga-0										
31000.84p	mcplib84	2012	6787	974	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
31000.63p	mcplib63	2012	1483	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
31000.04p	mcplib04	2002	6787	974	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
31000.03p	mcplib03	2002	1483	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
31000.02p	mcplib02	1993	691	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
31000.01p	mcplib	1982	457	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 32, germanium					

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	$E_{\max}$ (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
Ge-0										
32000.84p	mcplib84	2012	7027	1014	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
32000.63p	mcplib63	2012	1483	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
32000.04p	mcplib04	2002	7027	1014	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
32000.03p	mcplib03	2002	1483	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
32000.02p	mcplib02	1993	691	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
32000.01p	mcplib	1982	457	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 33, arsenic					
As-0										
33000.84p	mcplib84	2012	6595	942	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
33000.63p	mcplib63	2012	1483	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
33000.04p	mcplib04	2002	6595	942	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
33000.03p	mcplib03	2002	1483	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
33000.02p	mcplib02	1993	691	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
33000.01p	mcplib	1982	457	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 34, selenium					
Se-0										
34000.84p	mcplib84	2012	6655	952	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
34000.63p	mcplib63	2012	1483	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
34000.04p	mcplib04	2002	6655	952	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
34000.03p	mcplib03	2002	1483	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
34000.02p	mcplib02	1993	691	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
34000.01p	mcplib	1982	457	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 35, bromine					
Br-0										

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	E_{max} (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
35000.84p	mcplib84	2012	6853	985	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
35000.63p	mcplib63	2012	1483	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
35000.04p	mcplib04	2002	6853	985	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
35000.03p	mcplib03	2002	1483	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
35000.02p	mcplib02	1993	691	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
35000.01p	mcplib	1982	457	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					$Z = 36$, krypton					
Kr-0										
36000.84p	mcplib84	2012	7177	973	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
36000.63p	mcplib63	2012	1879	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
36000.04p	mcplib04	2002	7177	973	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
36000.03p	mcplib03	2002	1879	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
36000.02p	mcplib02	1993	691	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
36000.01p	mcplib	1982	457	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					$Z = 37$, rubidium					
Rb-0										
37000.84p	mcplib84	2012	7364	987	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
37000.63p	mcplib63	2012	1982	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
37000.04p	mcplib04	2002	7364	987	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
37000.03p	mcplib03	2002	1982	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
37000.02p	mcplib02	1993	695	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
37000.01p	mcplib	1982	461	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					$Z = 38$, strontium					
Sr-0										
38000.84p	mcplib84	2012	7256	969	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	E_{max} (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
38000.63p	mcplib63	2012	1982	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
38000.04p	mcplib04	2002	7256	969	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
38000.03p	mcplib03	2002	1982	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
38000.02p	mcplib02	1993	695	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
38000.01p	mcplib	1982	461	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
Z = 39, yttrium										
Y-0										
39000.84p	mcplib84	2012	7583	1007	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
39000.63p	mcplib63	2012	2081	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
39000.04p	mcplib04	2002	7583	1007	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
39000.03p	mcplib03	2002	2081	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
39000.02p	mcplib02	1993	695	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
39000.01p	mcplib	1982	461	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
Z = 40, zirconium										
Zr-0										
40000.84p	mcplib84	2012	7703	1027	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
40000.63p	mcplib63	2012	2081	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
40000.04p	mcplib04	2002	7703	1027	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
40000.03p	mcplib03	2002	2081	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
40000.02p	mcplib02	1993	695	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
40000.01p	mcplib	1982	461	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
Z = 41, niobium										
Nb-0										
41000.84p	mcplib84	2012	7667	1021	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
41000.63p	mcplib63	2012	2081	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	E_{max} (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
41000.04p	mcplib04	2002	7667	1021	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
41000.03p	mcplib03	2002	2081	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
41000.02p	mcplib02	1993	695	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
41000.01p	mcplib	1982	461	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 42, molybdenum					
Mo-0										
42000.84p	mcplib84	2012	7592	992	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
42000.63p	mcplib63	2012	2180	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
42000.04p	mcplib04	2002	7592	992	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
42000.03p	mcplib03	2002	2180	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
42000.02p	mcplib02	1993	695	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
42000.01p	mcplib	1982	461	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 43, technetium					
Tc-0										
43000.84p	mcplib84	2012	7946	1051	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
43000.63p	mcplib63	2012	2180	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
43000.04p	mcplib04	2002	7946	1051	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
43000.03p	mcplib03	2002	2180	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
43000.02p	mcplib02	1993	695	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
43000.01p	mcplib	1982	461	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 44, ruthenium					
Ru-0										
44000.84p	mcplib84	2012	7988	1058	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
44000.63p	mcplib63	2012	2180	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
44000.04p	mcplib04	2002	7988	1058	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	$E_{\max}$ (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
44000.03p	mcplib03	2002	2180	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
44000.02p	mcplib02	1993	695	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
44000.01p	mcplib	1982	461	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 45, rhodium					
Rh-0										
45000.84p	mcplib84	2012	7856	1036	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
45000.63p	mcplib63	2012	2180	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
45000.04p	mcplib04	2002	7856	1036	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
45000.03p	mcplib03	2002	2180	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
45000.02p	mcplib02	1993	695	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
45000.01p	mcplib	1982	461	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 46, palladium					
Pd-0										
46000.84p	mcplib84	2012	7595	1009	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
46000.63p	mcplib63	2012	2081	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
46000.04p	mcplib04	2002	7595	1009	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
46000.03p	mcplib03	2002	2180	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
46000.02p	mcplib02	1993	695	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
46000.01p	mcplib	1982	461	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 47, silver					
Ag-0										
47000.84p	mcplib84	2012	7772	1022	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
47000.63p	mcplib63	2012	2180	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
47000.04p	mcplib04	2002	7772	1022	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
47000.03p	mcplib03	2002	2180	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	E_{max} (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
47000.02p	mcplib02	1993	695	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
47000.01p	mcplib	1982	461	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 48, cadmium					
Cd-0										
48000.84p	mcplib84	2012	7700	1010	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
48000.63p	mcplib63	2012	2180	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
48000.04p	mcplib04	2002	7700	10010	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
48000.03p	mcplib03	2002	2180	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
48000.02p	mcplib02	1993	695	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
48000.01p	mcplib	1982	461	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 49, indium					
In-0										
49000.84p	mcplib84	2012	8291	1092	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
49000.63p	mcplib63	2012	2279	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
49000.04p	mcplib04	2002	8291	1092	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
49000.03p	mcplib03	2002	2279	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
49000.02p	mcplib02	1993	695	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
49000.01p	mcplib	1982	461	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 50, tin					
Sn-0										
50000.84p	mcplib84	2012	8039	1050	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
50000.63p	mcplib63	2012	2279	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
50000.04p	mcplib04	2002	8039	1050	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
50000.03p	mcplib03	2002	2279	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
50000.02p	mcplib02	1993	695	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	$E_{\max}$ (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
50000.01p	mcplib	1982	461	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 51, antimony					
Sb-0										
51000.84p	mcplib84	2012	8414	1096	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
51000.63p	mcplib63	2012	2378	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
51000.04p	mcplib04	2002	8414	1096	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
51000.03p	mcplib03	2002	2378	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
51000.02p	mcplib02	1993	695	90	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
51000.01p	mcplib	1982	461	51	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 52, tellurium					
Te-0										
52000.84p	mcplib84	2012	8162	1054	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
52000.63p	mcplib63	2012	2390	92	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
52000.04p	mcplib04	2002	8162	1054	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
52000.03p	mcplib03	2002	2390	92	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
52000.02p	mcplib02	1993	707	92	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
52000.01p	mcplib	1982	473	53	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 53, iodine					
I-0										
53000.84p	mcplib84	2012	8492	1109	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
53000.63p	mcplib63	2012	2390	92	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
53000.04p	mcplib04	2002	8492	1109	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
53000.03p	mcplib03	2002	2390	92	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
53000.02p	mcplib02	1993	707	92	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
53000.01p	mcplib	1982	473	53	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	$E_{\max}$ (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
					Z = 54, xenon					
Xe-0										
54000.84p	mcplib84	2012	8324	1081	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
54000.63p	mcplib63	2012	2390	92	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
54000.04p	mcplib04	2002	8324	1081	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
54000.03p	mcplib03	2002	2390	92	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
54000.02p	mcplib02	1993	707	92	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
54000.01p	mcplib	1982	473	53	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 55, cesium					
Cs-0										
55000.84p	mcplib84	2012	8417	1080	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
55000.63p	mcplib63	2012	2513	96	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
55000.04p	mcplib04	2002	8417	1080	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
55000.03p	mcplib03	2002	2513	96	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
55000.02p	mcplib02	1993	731	96	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
55000.01p	mcplib	1982	497	57	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 56, barium					
Ba-0										
56000.84p	mcplib84	2012	8465	1088	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
56000.63p	mcplib63	2012	2513	96	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
56000.04p	mcplib04	2002	8465	1088	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
56000.03p	mcplib03	2002	2513	96	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
56000.02p	mcplib02	1993	731	96	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
56000.01p	mcplib	1982	497	57	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 57, lanthanum					

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	$E_{\max}$ (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
La-0										
57000.84p	mcplib84	2012	8744	1118	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
57000.63p	mcplib63	2012	2612	96	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
57000.04p	mcplib04	2002	8744	1118	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
57000.03p	mcplib03	2002	2612	96	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
57000.02p	mcplib02	1993	731	96	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
57000.01p	mcplib	1982	497	57	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 58, cerium					
Ce-0										
58000.84p	mcplib84	2012	9173	1173	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
58000.63p	mcplib63	2012	2711	96	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
58000.04p	mcplib04	2002	9173	1173	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
58000.03p	mcplib03	2002	2711	96	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
58000.02p	mcplib02	1993	731	96	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
58000.01p	mcplib	1982	497	57	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 59, praseodymium					
Pr-0										
59000.84p	mcplib84	2012	8750	1119	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
59000.63p	mcplib63	2012	2612	96	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
59000.04p	mcplib04	2002	8750	1119	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
59000.03p	mcplib03	2002	2612	96	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
59000.02p	mcplib02	1993	731	96	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
59000.01p	mcplib	1982	497	57	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 60, neodymium					
Nd-0										

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	E_{max} (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
60000.84p	mcplib84	2012	9362	1221	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
60000.63p	mcplib63	2012	2624	98	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
60000.04p	mcplib04	2002	9362	1221	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
60000.03p	mcplib03	2002	2624	98	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
60000.02p	mcplib02	1993	743	98	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
60000.01p	mcplib	1982	509	59	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
						Z = 61, promethium				
Pm-0										
61000.84p	mcplib84	2012	9350	1219	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
61000.63p	mcplib63	2012	2636	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
61000.04p	mcplib04	2002	9350	1219	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
61000.03p	mcplib03	2002	2636	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
61000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
61000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
						Z = 62, samarium				
Sm-0										
62000.84p	mcplib84	2012	9374	1223	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
62000.63p	mcplib63	2012	2636	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
62000.04p	mcplib04	2002	9374	1223	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
62000.03p	mcplib03	2002	2636	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
62000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
62000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
						Z = 63, europium				
Eu-0										
63000.84p	mcplib84	2012	9323	1198	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	E_{max} (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
63000.63p	mcplib63	2012	2735	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
63000.04p	mcplib04	2002	9323	1198	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
63000.03p	mcplib03	2002	2735	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
63000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
63000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 64, gadolinium					
Gd-0										
64000.84p	mcplib84	2012	9560	1221	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
64000.63p	mcplib63	2012	2834	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
64000.04p	mcplib04	2002	9560	1221	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
64000.03p	mcplib03	2002	2834	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
64000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
64000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 65, terbium					
Tb-0										
65000.84p	mcplib84	2012	9143	1168	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
65000.63p	mcplib63	2012	2735	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
65000.04p	mcplib04	2002	9143	1168	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
65000.03p	mcplib03	2002	2735	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
65000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
65000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 66, dysprosium					
Dy-0										
66000.84p	mcplib84	2012	9479	1224	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
66000.63p	mcplib63	2012	2735	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	$E_{\max}$ (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
66000.04p	mcplib04	2002	9479	1224	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
66000.03p	mcplib03	2002	2735	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
66000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
66000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 67, holmium					
Ho-0										
67000.84p	mcplib84	2012	9419	1214	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
67000.63p	mcplib63	2012	2735	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
67000.04p	mcplib04	2002	9419	1214	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
67000.03p	mcplib03	2002	2735	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
67000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
67000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 68, erbium					
Er-0										
68000.84p	mcplib84	2012	9233	1183	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
68000.63p	mcplib63	2012	2735	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
68000.04p	mcplib04	2002	9233	1183	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
68000.03p	mcplib03	2002	2735	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
68000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
68000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 69, thulium					
Tm-0										
69000.84p	mcplib84	2012	9473	1223	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
69000.63p	mcplib63	2012	2735	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
69000.04p	mcplib04	2002	9473	1223	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	E_{max} (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
69000.03p	mcplib03	2002	2735	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
69000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
69000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 70, ytterbium					
Yb-0										
70000.84p	mcplib84	2012	9539	1234	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
70000.63p	mcplib63	2012	2735	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
70000.04p	mcplib04	2002	9539	1234	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
70000.03p	mcplib03	2002	2735	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
70000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
70000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 71, lutetium					
Lu-0										
71000.84p	mcplib84	2012	9914	1280	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
71000.63p	mcplib63	2012	2834	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
71000.04p	mcplib04	2002	9914	1280	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
71000.03p	mcplib03	2002	2834	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
71000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
71000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 72, hafnium					
Hf-0										
72000.84p	mcplib84	2012	9932	1283	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
72000.63p	mcplib63	2012	2834	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
72000.04p	mcplib04	2002	9932	1283	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
72000.03p	mcplib03	2002	2834	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	E_{max} (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
72000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
72000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 73, tantalum					
Ta-0										
73000.84p	mcplib84	2012	9698	1244	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
73000.63p	mcplib63	2012	2834	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
73000.04p	mcplib04	2002	9698	1244	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
73000.03p	mcplib03	2002	2834	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
73000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
73000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 74, tungsten					
W-0										
74000.84p	mcplib84	2012	9716	1247	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
74000.63p	mcplib63	2012	2834	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
74000.04p	mcplib04	2002	9713	1247	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
74000.03p	mcplib03	2002	2834	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
74000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
74000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 75, rhenium					
Re-0										
75000.84p	mcplib84	2012	9797	1244	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
75000.63p	mcplib63	2012	2933	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
75000.04p	mcplib04	2002	9797	1244	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
75000.03p	mcplib03	2002	2933	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
75000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	E_{max} (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
75000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 76, osmium					
Os-0										
76000.84p	mcplib84	2012	9977	1274	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
76000.63p	mcplib63	2012	2933	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
76000.04p	mcplib04	2002	9977	1274	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
76000.03p	mcplib03	2002	2933	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
76000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
76000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 77, iridium					
Ir-0										
77000.84p	mcplib84	2012	9665	1222	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
77000.63p	mcplib63	2012	2933	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
77000.04p	mcplib04	2002	9665	1222	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
77000.03p	mcplib03	2002	2933	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
77000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
77000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 78, platinum					
Pt-0										
78000.84p	mcplib84	2012	9377	1174	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
78000.63p	mcplib63	2012	2933	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
78000.04p	mcplib04	2002	9377	1174	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
78000.03p	mcplib03	2002	2933	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
78000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
78000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	$E_{\max}$ (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
					Z = 79, gold					
Au-0										
79000.84p	mcplib84	2012	9881	1258	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
79000.63p	mcplib63	2012	2933	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
79000.04p	mcplib04	2002	9881	1258	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
79000.03p	mcplib03	2002	2933	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
79000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
79000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 80, mercury					
Hg-0										
80000.84p	mcplib84	2012	9281	1158	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
80000.63p	mcplib63	2012	2933	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
80000.04p	mcplib04	2002	9281	1158	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
80000.03p	mcplib03	2002	2933	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
80000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
80000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 81, thallium					
Tl-0										
81000.84p	mcplib84	2012	10142	1285	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
81000.63p	mcplib63	2012	3032	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
81000.04p	mcplib04	2002	10142	1285	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
81000.03p	mcplib03	2002	3032	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
81000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
81000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 82, lead					

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	$E_{\max}$ (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
Pb-0										
82000.84p	mcplib84	2012	10010	1263	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
82000.63p	mcplib63	2012	3032	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
82000.04p	mcplib04	2002	10010	1263	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
82000.03p	mcplib03	2002	3032	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
82000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
82000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					$Z = 83$, bismuth					
Bi-0										
83000.84p	mcplib84	2012	10373	1307	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
83000.63p	mcplib63	2012	3131	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
83000.04p	mcplib04	2002	10373	1307	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
83000.03p	mcplib03	2002	3131	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
83000.02p	mcplib02	1993	755	100	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
83000.01p	mcplib	1982	521	61	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					$Z = 84$, polonium					
Po-0										
84000.84p	mcplib84	2012	10247	1286	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
84000.63p	mcplib63	2012	3125	99	100	S&I /89	Unknown	E&C	BM&M	2
84000.04p	mcplib04	2002	10247	1286	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
84000.03p	mcplib03	2002	3125	99	100	S&I /89	Unknown	E&C	BM&M	1
84000.02p	mcplib02	1993	749	99	100	S&I/89	Unknown	E&C	n/a	
84000.01p	mcplib	1982	467	52	0.015	DLC-15	Unknown	E&C	n/a	
					$Z = 85$, astatine					
At-0										

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	$E_{\max}$ (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
85000.84p	mcplib84	2012	10463	1322	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
85000.63p	mcplib63	2012	3137	101	100	S&I /89	Unknown	E&C	BM&M	2
85000.04p	mcplib04	2002	10463	1322	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
85000.03p	mcplib03	2002	3137	101	100	S&I /89	Unknown	E&C	BM&M	1
85000.02p	mcplib02	1993	761	101	100	S&I/89	Unknown	E&C	n/a	
85000.01p	mcplib	1982	479	54	0.015	DLC-15	Unknown	E&C	n/a	
						Z = 86, radon				
Rn-0										
86000.84p	mcplib84	2012	10325	1299	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
86000.63p	mcplib63	2012	3143	102	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
86000.04p	mcplib04	2002	10325	1299	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
86000.03p	mcplib03	2002	3143	102	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
86000.02p	mcplib02	1993	767	102	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
86000.01p	mcplib	1982	533	63	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
						Z = 87, francium				
Fr-0										
87000.84p	mcplib84	2012	10532	1317	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
87000.63p	mcplib63	2012	3236	101	100	S&I /89	Unknown	E&C	BM&M	2
87000.04p	mcplib04	2002	10532	1317	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
87000.03p	mcplib03	2002	3236	101	100	S&I /89	Unknown	E&C	BM&M	1
87000.02p	mcplib02	1993	761	101	100	S&I/89	Unknown	E&C	n/a	
87000.01p	mcplib	1982	479	54	0.015	S&I	Unknown	E&C	n/a	
						Z = 88, radium				
Ra-0										
88000.84p	mcplib84	2012	10346	1286	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	$E_{\max}$ (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
88000.63p	mcplib63	2012	3236	101	100	S&I /89	Unknown	E&C	BM&M	2
88000.04p	mcplib04	2002	10346	1286	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
88000.03p	mcplib03	2002	3236	101	100	S&I /89	Unknown	E&C	BM&M	1
88000.02p	mcplib02	1993	761	101	100	S&I/89	Unknown	E&C	n/a	
88000.01p	mcplib	1982	479	54	0.015	S&I	Unknown	E&C	n/a	
					Z = 89, actinium					
Ac-0										
89000.84p	mcplib84	2012	10133	1234	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
89000.63p	mcplib63	2012	3335	101	100	S&I /89	Unknown	E&C	BM&M	2
89000.04p	mcplib04	2002	10133	1234	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
89000.03p	mcplib03	2002	3335	101	100	S&I /89	Unknown	E&C	BM&M	1
89000.02p	mcplib02	1993	761	101	100	S&I/89	Unknown	E&C	n/a	
89000.01p	mcplib	1982	479	54	0.015	S&I	Unknown	E&C	n/a	
					Z = 90, thorium					
Th-0										
90000.84p	mcplib84	2012	10565	1306	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
90000.63p	mcplib63	2012	3341	102	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
90000.04p	mcplib04	2002	10565	1306	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
90000.03p	mcplib03	2002	3341	102	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
90000.02p	mcplib02	1993	767	102	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
90000.01p	mcplib	1982	533	63	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 91, protactinium					
Pa-0										
91000.84p	mcplib84	2012	10670	1307	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
91000.63p	mcplib63	2012	3434	101	100	S&I /89	Unknown	E&C	BM&M	2

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	E_{max} (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
91000.04p	mcplib04	2002	10670	1307	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
91000.03p	mcplib03	2002	3434	101	100	S&I /89	Unknown	E&C	BM&M	1
91000.02p	mcplib02	1993	761	101	100	S&I/89	Unknown	E&C	n/a	
91000.01p	mcplib	1982	479	54	0.015	S&I	Unknown	E&C	n/a	
					Z = 92, uranium					
U-0										
92000.84p	mcplib84	2012	10808	1330	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
92000.63p	mcplib63	2012	3440	102	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
92000.04p	mcplib04	2002	10868	1330	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
92000.03p	mcplib03	2002	3440	102	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
92000.02p	mcplib02	1993	767	102	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
92000.01p	mcplib	1982	533	63	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
					Z = 93, neptunium					
Np-0										
93000.84p	mcplib84	2012	11120	1382	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
93000.63p	mcplib63	2012	3434	101	100	S&I /89	Unknown	E&C	BM&M	2
93000.04p	mcplib04	2002	11120	1382	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
93000.03p	mcplib03	2002	3434	101	100	S&I /89	Unknown	E&C	BM&M	1
93000.02p	mcplib02	1993	761	101	100	S&I/89	Unknown	E&C	n/a	
93000.01p	mcplib	1982	479	54	0.015	S&I	Unknown	E&C	n/a	
					Z = 94, plutonium					
Pu-0										
94000.84p	mcplib84	2012	10451	1287	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
94000.63p	mcplib63	2012	3341	102	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	2
94000.04p	mcplib04	2002	10451	1287	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	E_{max} (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
94000.03p	mcplib03	2002	3341	102	100	ENDF/B-IV/89	ENDF/B-IV	E&C	BM&M	1
94000.02p	mcplib02	1993	767	102	100	ENDF/B-IV/89	ENDF/B-IV	E&C	n/a	
94000.01p	mcplib	1982	533	63	0.1	ENDF/B-IV	ENDF/B-IV	E&C	n/a	
Z = 95, americium										
Am-0										
95000.84p	mcplib84	2012	10640	1302	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
95000.04p	mcplib04	2002	10640	1302	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
Z = 96, curium										
Cm-0										
96000.84p	mcplib84	2012	10421	1249	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
96000.04p	mcplib04	2002	10421	1249	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
Z = 97, berkelium										
Bk-0										
97000.84p	mcplib84	2012	10478	1275	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
97000.04p	mcplib04	2002	10478	1275	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
Z = 98, californium										
Cf-0										
98000.84p	mcplib84	2012	10634	1301	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
98000.04p	mcplib04	2002	10634	1301	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
Z = 99, einsteinium										
Es-0										
99000.84p	mcplib84	2012	11126	1383	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
99000.04p	mcplib04	2002	11126	1383	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1
Z = 100, fermium										
Fm-0										

Table 12: Continuous-energy photoatomic data libraries (continued)

ZAID	Library Name	Release Date	Length words	NE	$E_{\max}$ (GeV)	CS Source	FF Source	Flour. Source	CDBD Source	Notes
100000.84p	mcplib84	2012	10916	1348	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	2
100000.04p	mcplib04	2002	10916	1348	100	ENDF/B-VI.8	ENDF/B-VI.8	ENDF/B-VI.8	BM&M	1

7.1 Notes

1. Users of MCNP5 *should not* use the photon transport libraries mcnplib03 and mcnplib04 [WHI12].

2. Modification to mcnplib03 and mcnplib04 to fix inconsistent PDF and CDFs [WHI12].

8 Photonuclear Data

ZAID The nuclide identification number with the form `ZZZAAA.abx` where

> `ZZZ` is the atomic number,
>
> `AAA` is the mass number (000 for naturally occurring elements),
>
> `ab` is the unique alphanumeric table identifier
>
> `x=U` for continuous-energy photonuclear tables

Atomic Weight Ratio The atomic weight ratio (AWR) is the ratio of the atomic mass of the nuclide to a neutron, as contained in the original evaluation and used in the NJOY processing of the evaluation.

Library Name of the library that contains the data file for that `ZAID`.

Evaluation Date Date the evaluation was officially released.

Source The source from which the evaluated data was obtained. The abbreviation LANL/T-16 indicates that the data were produced by the Nuclear Physics Group (T-16) at Los Alamos National Laboratory.

Length The total length of a particular photonuclear table in words.

Number of Energies The number of energy points (NE) on the grid used for the photonuclear cross sections for that data table. In general, a finer energy grid with a greater number of points provides a more accurate representation of the cross sections.

$E_{\max}$ The maximum incident photon energy in MeV for that data table. For all incident energies greater than Emax, `MCNP6` assumes the last cross-section value given.

CP "YES" indicates that secondary charged-particle data are present;
"NO" indicates that such data are not present.

Table 13: Continuous-energy photonuclear data libraries

ZAID	AWR	Library Name	Eval. Date	Source	Length (words)	NE	E_{max} (GeV)	CP	Notes
				Z = 1, hydrogen					
H-2									
1002.24u	1.9963	la150u	2001	LANL/T-16	3686	35	30	No	
				Z = 6, carbon					
C-12									
6012.24u	11.89691	la150u	1999	LANL/T-16	50395	98	150	Yes	
				Z = 8, oxygen					
O-16									
8016.24u	15.85316	la150u	1999	LANL/T-16	72930	95	150	Yes	
				Z = 13, aluminum					
Al-27									
13027.24u	26.74975	la150u	1999	LANL/T-16	68599	52	150	Yes	
				Z = 14, silicon					
Si-28									
14028.24u	27.737	la150u	1999	LANL/T-16	70693	60	150	Yes	
				Z = 20, calcium					
Ca-40									
20040.24u	39.736	la150u	1998	LANL/T-16	67051	54	150	Yes	
				Z = 26, iron					
Fe-56									
26056.24u	55.454	la150u	1998	LANL/T-16	64043	50	150	Yes	
				Z = 29, copper					
Cu-63									
29063.24u	62.389	la150u	1999	LANL/T-16	73548	57	150	Yes	

Table 13: Continuous-energy photonuclear data libraries (continued)

ZAID	AWR	Library Name	Eval. Date	Source	Length (words)	NE	$E_{\max}$ (GeV)	CP	Notes
				Z = 73, tantalum					
Ta-181									
73181.24u	179.4	la150u	1999	LANL/T-16	85094	50	150	Yes	
				Z = 74, tungsten					
W-184									
74184.24u	182.3707	la150u	1998	LANL/T-16	78439	51	150	Yes	
				Z = 82, lead					
Pb-206									
82206.24u	204.2	la150u	1998	LANL/T-16	78186	49	150	Yes	
Pb-207									
82207.24u	205.2	la150u	1998	LANL/T-16	78259	52	150	Yes	
Pb-208									
82208.24u	206.19	la150u	1998	LANL/T-16	77099	51	150	Yes	

9 Dosimetry Data

The tally multiplier (FM) feature in `MCNP6` allows users to calculate quantities of the form:

$$C \int \phi(E) R(E) dE, \tag{1}$$

where C is a constant, $\phi(E)$ is the fluence (n/cm^2), and $R(E)$ is a response function. If $R(E)$ is a cross section, and with the appropriate choice of units for C [atom/b·cm], the quantity calculated becomes the total number of some type of reaction per unit volume. If the tally is made over a finite time interval, it becomes a reaction rate per unit volume. In addition to using the standard reaction cross-section information available in our neutron transport libraries, dosimetry or activation reaction data may also be used as a response function. Often only dosimetry data is available for rare nuclides.

A full description of the use of dosimetry data can be found in reference LIT84. This memorandum also gives a listing of all reaction data that is available for each `ZAID`. There have been no major revisions of the LLNL/ACTL data since LLLDOS was produced. Users need to remember that dosimetry data libraries are appropriate only when used as a source of $R(E)$ for FM tally multipliers. Dosimetry data libraries cannot be used as a source of data for materials through which actual transport is required. Table 14 lists the available dosimetry data libraries for use with `MCNP6`, the evaluation source and date, and the length of the data in words.

461

Table 14: Dosimetry data libraries for `MCNP` tallies

ZAID	AWR	Library	Source	Date	Length	Notes
		Z = 1, hydrogen				
H-1						
1001.30y	1.00782	llldos	LLNL/ACTL	<1983	209	
H-2						
1002.30y	2.0141	llldos	LLNL/ACTL	<1983	149	
H-3						
1003.30y	3.01605	llldos	LLNL/ACTL	<1983	27	
		Z = 2, helium				
He-3						
2003.30y	3.01603	llldos	LLNL/ACTL	<1983	267	
		Z = 3, lithium				
Li-6						
3006.24y	5.9634	531dos	ENDF/B-V	1978	735	
3006.26y	5.9634	532dos	ENDF/B-V	1977	713	
3006.30y	6.01512	llldos	LLNL/ACTL	<1983	931	
Li-7						
3007.26y	6.9557	532dos	ENDF/B-V	1972	733	
3007.30y	7.01601	llldos	LLNL/ACTL	<1983	201	
		Z = 4, beryllium				
Be-7						
4007.30y	7.01693	llldos	LLNL/ACTL	<1983	253	
Be-9						
4009.30y	9.01218	llldos	LLNL/ACTL	<1983	335	
		Z = 5, boron				
B-10						
5010.24y	9.9269	531dos	ENDF/B-V	1979	769	
5010.26y	9.9269	532dos	ENDF/B-V	1976	589	
5010.30y	10.0129	llldos	LLNL/ACTL	<1983	381	
B-11						
5011.30y	11.0093	llldos	LLNL/ACTL	<1983	119	
		Z = 6, carbon				
C-12						
6012.30y	12	llldos	LLNL/ACTL	<1983	97	
C-13						
6013.30y	13.0034	llldos	LLNL/ACTL	<1983	479	
C-14						
6014.30y	14.0032	llldos	LLNL/ACTL	<1983	63	
		Z = 7, nitrogen				
N-14						
7014.26y	13.883	532dos	ENDF/B-V	1973	1013	
7014.30y	14.0031	llldos	LLNL/ACTL	<1983	915	
		Z = 8, oxygen				
O-16						
8016.26y	15.858	532dos	ENDF/B-V	1973	95	
8016.30y	15.9949	llldos	LLNL/ACTL	<1983	215	
O-17						

Continued on next page.

Table 14: Dosimetry data libraries for `MCNP` tallies (continued)

ZAID	AWR	Library	Source	Date	Length	Notes
8017.30y	16.9991	llldos	LLNL/ACTL	<1983	239	
			Z = 9, fluorine			
F-19						
9019.26y	18.835	532dos	ENDF/B-V	1979	31	
9019.30y	18.9984	llldos	LLNL/ACTL	<1983	517	
			Z = 11, sodium			
Na-23						
11023.30y	22.9898	llldos	LLNL/ACTL	<1983	621	
			Z = 12, magnesium			
Mg-23						
12023.30y	22.9941	llldos	LLNL/ACTL	<1983	333	
Mg-24						
12024.26y	23.985	532dos	ENDF/B-V	1979	165	
12024.30y	23.985	llldos	LLNL/ACTL	<1983	309	
Mg-25						
12025.30y	24.9858	llldos	LLNL/ACTL	<1983	309	
Mg-26						
12026.30y	25.9826	llldos	LLNL/ACTL	<1983	321	
Mg-27						
12027.30y	26.9843	llldos	LLNL/ACTL	<1983	309	
			Z = 13, aluminum			
Al-26						
13026.30y	25.9869	llldos	LLNL/ACTL	<1983	447	
Al-27						
13027.24y	26.75	531dos	ENDF/B-V	1973	1165	
13027.26y	26.75	532dos	ENDF/B-V	1973	1753	
13027.30y	26.9815	llldos	LLNL/ACTL	<1983	491	
			Z = 14, silicon			
Si-27						
14027.30y	26.9867	llldos	LLNL/ACTL	<1983	401	
Si-28						
14028.30y	27.9769	llldos	LLNL/ACTL	<1983	377	
Si-29						
14029.30y	28.9765	llldos	LLNL/ACTL	<1983	389	
Si-30						
14030.30y	29.9738	llldos	LLNL/ACTL	<1983	395	
Si-31						
14031.30y	30.9754	llldos	LLNL/ACTL	<1983	337	
			Z = 15, phosphorus			
P-31						
15031.26y	30.708	532dos	ENDF/B-V	1977	65	
15031.30y	30.9738	llldos	LLNL/ACTL	<1983	263	
			Z = 16, sulfur			
S-31						
16031.30y	30.9796	llldos	LLNL/ACTL	<1983	393	
S-32						
16032.24y	31.6974	531dos	ENDF/B-V	1979	145	

Continued on next page.

Table 14: Dosimetry data libraries for `MCNP` tallies (continued)

ZAID	AWR	Library	Source	Date	Length	Notes
16032.26y	31.697	532dos	ENDF/B-V	1977	35	
16032.30y	31.9721	llldos	LLNL/ACTL	<1983	417	
S-33						
16033.30y	32.9715	llldos	LLNL/ACTL	<1983	435	
S-34						
16034.30y	33.9679	llldos	LLNL/ACTL	<1983	437	
S-35						
16035.30y	34.969	llldos	LLNL/ACTL	<1983	339	
S-36						
16036.30y	35.9671	llldos	LLNL/ACTL	<1983	293	
S-37						
16037.30y	36.9711	llldos	LLNL/ACTL	<1983	279	
Z = 17, chlorine						
Cl-34						
17034.30y	33.9738	llldos	LLNL/ACTL	<1983	401	
Cl-35						
17035.30y	34.9689	llldos	LLNL/ACTL	<1983	459	
Cl-36						
17036.30y	35.9683	llldos	LLNL/ACTL	<1983	563	
Cl-37						
17037.30y	36.9659	llldos	LLNL/ACTL	<1983	407	
Cl-38						
17038.30y	37.968	llldos	LLNL/ACTL	<1983	33	
Z = 18, argon						
Ar-36						
18036.30y	35.9675	llldos	LLNL/ACTL	<1983	309	
Ar-37						
18037.30y	36.9668	llldos	LLNL/ACTL	<1983	311	
Ar-38						
18038.30y	37.9627	llldos	LLNL/ACTL	<1983	311	
Ar-39						
18039.30y	38.9643	llldos	LLNL/ACTL	<1983	337	
Ar-40						
18040.26y	39.6191	532dos	ENDF/B-V	1979	3861	
18040.30y	39.9624	llldos	LLNL/ACTL	<1983	347	
Ar-41						
18041.30y	40.9645	llldos	LLNL/ACTL	<1983	317	
Ar-42						
18042.30y	41.963	llldos	LLNL/ACTL	<1983	291	
Ar-43						
18043.30y	42.9657	llldos	LLNL/ACTL	<1983	295	
Z = 19, potassium						
K-38						
19038.30y	37.9691	llldos	LLNL/ACTL	<1983	603	
K-39						
19039.30y	38.9637	llldos	LLNL/ACTL	<1983	405	
K-40						

Table 14: Dosimetry data libraries for `MCNP` tallies (continued)

ZAID	AWR	Library	Source	Date	Length	Notes
19040.30y	39.964	llldos	LLNL/ACTL	<1983	675	
K-41						
19041.26y	40.6099	532dos	ENDF/B-V	1979	33	
19041.30y	40.9618	llldos	LLNL/ACTL	<1983	369	
K-42						
19042.30y	41.9624	llldos	LLNL/ACTL	<1983	343	
K-43						
19043.30y	42.9607	llldos	LLNL/ACTL	<1983	277	
K-44						
19044.30y	43.9616	llldos	LLNL/ACTL	<1983	275	
K-45						
19045.30y	44.9607	llldos	LLNL/ACTL	<1983	283	
K-46						
19046.30y	45.962	llldos	LLNL/ACTL	<1983	283	
		Z = 20, calcium				
Ca-39						
20039.30y	38.9707	llldos	LLNL/ACTL	<1983	601	
Ca-40						
20040.30y	39.9626	llldos	LLNL/ACTL	<1983	309	
Ca-41						
20041.30y	40.9623	llldos	LLNL/ACTL	<1983	313	
Ca-42						
20042.30y	41.9586	llldos	LLNL/ACTL	<1983	285	
Ca-43						
20043.30y	42.9588	llldos	LLNL/ACTL	<1983	295	
Ca-44						
20044.30y	43.9555	llldos	LLNL/ACTL	<1983	269	
Ca-45						
20045.30y	44.9562	llldos	LLNL/ACTL	<1983	271	
Ca-46						
20046.30y	45.9537	llldos	LLNL/ACTL	<1983	255	
Ca-47						
20047.30y	46.9545	llldos	LLNL/ACTL	<1983	243	
Ca-48						
20048.30y	47.9525	llldos	LLNL/ACTL	<1983	239	
Ca-49						
20049.30y	48.9557	llldos	LLNL/ACTL	<1983	229	
		Z = 21, scandium				
Sc-44						
21044.30y	43.9594	llldos	LLNL/ACTL	<1983	313	
21044.31y	43.9594	llldos	LLNL/ACTL	<1983	311	
Sc-45						
21045.24y	44.5679	531dos	ENDF/B-V	1979	20179	
21045.26y	44.5679	532dos	ENDF/B-V	1979	20211	
21045.30y	44.9559	llldos	LLNL/ACTL	<1983	547	
Sc-46						
21046.30y	45.9552	llldos	LLNL/ACTL	<1983	323	

Continued on next page.

Table 14: Dosimetry data libraries for `MCNP` tallies (continued)

ZAID	AWR	Library	Source	Date	Length	Notes
21046.31y	45.9552	llldos	LLNL/ACTL	<1983	323	
Sc-47						
21047.30y	46.9524	llldos	LLNL/ACTL	<1983	331	
Sc-48						
21048.30y	47.9522	llldos	LLNL/ACTL	<1983	325	
Z = 22, titanium						
Ti-45						
22045.30y	44.9581	llldos	LLNL/ACTL	<1983	449	
Ti-46						
22046.24y	45.5578	531dos	ENDF/B-V	1977	53	
22046.26y	45.5578	532dos	ENDF/B-V	1977	53	
22046.30y	45.9526	llldos	LLNL/ACTL	<1983	391	
Ti-47						
22047.24y	46.548	531dos	ENDF/B-V	1977	209	
22047.26y	46.548	532dos	ENDF/B-V	1977	209	
22047.30y	46.9518	llldos	LLNL/ACTL	<1983	419	
Ti-48						
22048.24y	47.536	531dos	ENDF/B-V	1977	145	
22048.26y	47.536	532dos	ENDF/B-V	1977	177	
22048.30y	47.9479	llldos	LLNL/ACTL	<1983	415	
Ti-49						
22049.30y	48.9479	llldos	LLNL/ACTL	<1983	409	
Ti-50						
22050.26y	49.57	532dos	ENDF/B-V	1979	33	
22050.30y	49.9448	llldos	LLNL/ACTL	<1983	345	
Ti-51						
22051.30y	50.9466	llldos	LLNL/ACTL	<1983	389	
Z = 23, vanadium						
V-47						
23047.30y	46.9549	llldos	LLNL/ACTL	<1983	209	
V-48						
23048.30y	47.9523	llldos	LLNL/ACTL	<1983	399	
V-49						
23049.30y	48.9485	llldos	LLNL/ACTL	<1983	423	
V-50						
23050.30y	49.9472	llldos	LLNL/ACTL	<1983	407	
V-51						
23051.30y	50.944	llldos	LLNL/ACTL	<1983	357	
V-52						
23052.30y	51.9448	llldos	LLNL/ACTL	<1983	401	
Z = 24, chromium						
Cr-49						
24049.30y	48.9513	llldos	LLNL/ACTL	<1983	377	
Cr-50						
24050.26y	49.5165	532dos	ENDF/B-V	1979	7405	
24050.30y	49.946	llldos	LLNL/ACTL	<1983	435	
Cr-51						

Continued on next page.

Table 14: Dosimetry data libraries for `MCNP` tallies (continued)

ZAID	AWR	Library	Source	Date	Length	Notes
24051.30y	50.9448	llldos	LLNL/ACTL	<1983	377	
Cr-52						
24052.26y	51.4938	532dos	ENDF/B-V	1979	27	
24052.30y	51.9405	llldos	LLNL/ACTL	<1983	417	
Cr-53						
24053.30y	52.9406	llldos	LLNL/ACTL	<1983	425	
Cr-54						
24054.30y	53.9389	llldos	LLNL/ACTL	<1983	461	
Cr-55						
24055.30y	54.9408	llldos	LLNL/ACTL	<1983	419	
Cr-56						
24056.30y	55.9407	llldos	LLNL/ACTL	<1983	297	
			Z = 25, manganese			
Mn-51						
25051.30y	50.9482	llldos	LLNL/ACTL	<1983	417	
Mn-52						
25052.30y	51.9456	llldos	LLNL/ACTL	<1983	379	
Mn-53						
25053.30y	52.9413	llldos	LLNL/ACTL	<1983	425	
Mn-54						
25054.30y	53.9404	llldos	LLNL/ACTL	<1983	391	
Mn-55						
25055.24y	54.4661	531dos	ENDF/B-V	1977	119	
25055.30y	54.938	llldos	LLNL/ACTL	<1983	435	
Mn-56						
25056.30y	55.9389	llldos	LLNL/ACTL	<1983	423	
Mn-57						
25057.30y	56.9383	llldos	LLNL/ACTL	<1983	419	
Mn-58						
25058.30y	57.9397	llldos	LLNL/ACTL	<1983	285	
			Z = 26, iron			
Fe-53						
26053.30y	52.9453	llldos	LLNL/ACTL	<1983	387	
Fe-54						
26054.24y	53.4762	531dos	ENDF/B-V	1979	517	
26054.26y	53.476	532dos	ENDF/B-V	1978	21563	
26054.30y	53.9396	llldos	LLNL/ACTL	<1983	457	
Fe-55						
26055.30y	54.9383	llldos	LLNL/ACTL	<1983	373	
Fe-56						
26056.24y	55.454	531dos	ENDF/B-V	1978	449	
26056.26y	55.454	532dos	ENDF/B-V	1978	581	
26056.30y	55.9349	llldos	LLNL/ACTL	<1983	415	
Fe-57						
26057.30y	56.9354	llldos	LLNL/ACTL	<1983	447	
Fe-58						
26058.24y	57.4356	531dos	ENDF/B-V	1979	7077	

Continued on next page.

Table 14: Dosimetry data libraries for `MCNP` tallies (continued)

ZAID	AWR	Library	Source	Date	Length	Notes
26058.26y	57.4356	532dos	ENDF/B-V	1979	7097	
26058.30y	57.9333	llldos	LLNL/ACTL	<1983	431	
Fe-59						
26059.30y	58.9349	llldos	LLNL/ACTL	<1983	397	
Fe-60						
26060.30y	59.934	llldos	LLNL/ACTL	<1983	285	
			Z = 27, cobalt			
Co-57						
27057.30y	56.9363	llldos	LLNL/ACTL	<1983	629	
Co-58						
27058.30y	57.9358	llldos	LLNL/ACTL	<1983	531	
27058.31y	57.9358	llldos	LLNL/ACTL	<1983	569	
Co-59						
27059.30y	58.9332	llldos	LLNL/ACTL	<1983	657	
Co-60						
27060.30y	59.9338	llldos	LLNL/ACTL	<1983	435	
27060.31y	59.9338	llldos	LLNL/ACTL	<1983	499	
Co-61						
27061.30y	60.9325	llldos	LLNL/ACTL	<1983	613	
Co-62						
27062.30y	61.934	llldos	LLNL/ACTL	<1983	463	
27062.31y	61.934	llldos	LLNL/ACTL	<1983	519	
Co-63						
27063.30y	62.9336	llldos	LLNL/ACTL	<1983	339	
Co-64						
27064.30y	63.9358	llldos	LLNL/ACTL	<1983	323	
			Z = 28, nickel			
Ni-57						
28057.30y	56.9398	llldos	LLNL/ACTL	<1983	441	
Ni-58						
28058.24y	57.4376	531dos	ENDF/B-V	1977	411	
28058.26y	57.4376	532dos	ENDF/B-V	1978	4079	
28058.30y	57.9353	llldos	LLNL/ACTL	<1983	509	
Ni-59						
28059.30y	58.9343	llldos	LLNL/ACTL	<1983	513	
Ni-60						
28060.24y	59.4159	531dos	ENDF/B-V	1977	435	
28060.26y	59.4159	532dos	ENDF/B-V	1978	479	
28060.30y	59.9308	llldos	LLNL/ACTL	<1983	503	
Ni-61						
28061.30y	60.9311	llldos	LLNL/ACTL	<1983	489	
Ni-62						
28062.26y	61.3963	532dos	ENDF/B-V	1978	3847	
28062.30y	61.9283	llldos	LLNL/ACTL	<1983	459	
Ni-63						
28063.30y	62.9297	llldos	LLNL/ACTL	<1983	375	
Ni-64						

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Table 14: Dosimetry data libraries for `MCNP` tallies (continued)

ZAID	AWR	Library	Source	Date	Length	Notes
28064.30y	63.928	llldos	LLNL/ACTL	<1983	397	
Ni-65						
28065.30y	64.9301	llldos	LLNL/ACTL	<1983	345	
		Z = 29, copper				
Cu-62						
29062.30y	61.9326	llldos	LLNL/ACTL	<1983	507	
Cu-63						
29063.24y	62.93	531dos	ENDF/B-V	1978	3375	
29063.26y	62.93	532dos	ENDF/B-V	1978	3615	
29063.30y	62.9296	llldos	LLNL/ACTL	<1983	513	
Cu-64						
29064.30y	63.9298	llldos	LLNL/ACTL	<1983	437	
Cu-65						
29065.24y	64.928	531dos	ENDF/B-V	1978	49	
29065.26y	64.928	532dos	ENDF/B-V	1978	49	
29065.30y	64.9278	llldos	LLNL/ACTL	<1983	563	
Cu-66						
29066.30y	65.9289	llldos	LLNL/ACTL	<1983	397	
		Z = 30, zinc				
Zn-64						
30064.30y	63.9291	llldos	LLNL/ACTL	<1983	555	
Zn-66						
30066.30y	65.926	llldos	LLNL/ACTL	<1983	561	
Zn-67						
30067.30y	66.9271	llldos	LLNL/ACTL	<1983	411	
Zn-68						
30068.30y	67.9248	llldos	LLNL/ACTL	<1983	643	
Zn-70						
30070.30y	69.9253	llldos	LLNL/ACTL	<1983	619	
		Z = 31, gallium				
Ga-69						
31069.30y	68.9256	llldos	LLNL/ACTL	<1983	197	
Ga-71						
31071.30y	70.9247	llldos	LLNL/ACTL	<1983	419	
		Z = 32, germanium				
Ge-70						
32070.30y	69.9242	llldos	LLNL/ACTL	<1983	405	
Ge-72						
32072.30y	71.9221	llldos	LLNL/ACTL	<1983	423	
Ge-73						
32073.30y	72.9235	llldos	LLNL/ACTL	<1983	431	
Ge-74						
32074.30y	73.9212	llldos	LLNL/ACTL	<1983	629	
Ge-76						
32076.30y	75.9214	llldos	LLNL/ACTL	<1983	623	
		Z = 33, arsenic				
As-75						

Table 14: Dosimetry data libraries for `MCNP` tallies (continued)

ZAID	AWR	Library	Source	Date	Length	Notes
33075.30y	74.9216	llldos	LLNL/ACTL	<1983	987	
			Z = 34, selenium			
Se-74						
34074.30y	73.9225	llldos	LLNL/ACTL	<1983	159	
Se-76						
34076.30y	75.9192	llldos	LLNL/ACTL	<1983	177	
Se-80						
34080.30y	79.9165	llldos	LLNL/ACTL	<1983	205	
Se-82						
34082.30y	81.9167	llldos	LLNL/ACTL	<1983	223	
			Z = 35, bromine			
Br-79						
35079.30y	78.9183	llldos	LLNL/ACTL	<1983	263	
Br-81						
35081.30y	80.9163	llldos	LLNL/ACTL	<1983	695	
			Z = 37, rubidium			
Rb-85						
37085.30y	84.9118	llldos	LLNL/ACTL	<1983	193	
Rb-87						
37087.30y	86.9092	llldos	LLNL/ACTL	<1983	199	
			Z = 38, strontium			
Sr-84						
38084.30y	83.9134	llldos	LLNL/ACTL	<1983	163	
Sr-86						
38086.30y	85.9093	llldos	LLNL/ACTL	<1983	33	
			Z = 39, yttrium			
Y-89						
39089.30y	88.9059	llldos	LLNL/ACTL	<1983	419	
			Z = 40, zirconium			
Zr-89						
40089.30y	88.9089	llldos	LLNL/ACTL	<1983	321	
Zr-90						
40090.26y	89.132	532dos	ENDF/B-V	1976	37	
40090.30y	89.9047	llldos	LLNL/ACTL	<1983	385	
Zr-91						
40091.30y	90.9056	llldos	LLNL/ACTL	<1983	407	
Zr-92						
40092.26y	91.112	532dos	ENDF/B-V	1976	3821	
40092.30y	91.905	llldos	LLNL/ACTL	<1983	431	
Zr-93						
40093.30y	92.9065	llldos	LLNL/ACTL	<1983	371	
Zr-94						
40094.26y	93.096	532dos	ENDF/B-V	1976	5255	
40094.30y	93.9063	llldos	LLNL/ACTL	<1983	417	
Zr-95						
40095.30y	94.908	llldos	LLNL/ACTL	<1983	375	
Zr-96						

Table 14: Dosimetry data libraries for `MCNP` tallies (continued)

ZAID	AWR	Library	Source	Date	Length	Notes
40096.30y	95.9083	llldos	LLNL/ACTL	<1983	57	
Zr-97						
40097.30y	96.9109	llldos	LLNL/ACTL	<1983	339	
		Z = 41, niobium				
Nb-91						
41091.30y	90.907	llldos	LLNL/ACTL	<1983	491	
41091.31y	90.907	llldos	LLNL/ACTL	<1983	491	
Nb-92						
41092.30y	91.9072	llldos	LLNL/ACTL	<1983	285	
41092.31y	91.9072	llldos	LLNL/ACTL	<1983	285	
Nb-93						
41093.30y	92.9064	llldos	LLNL/ACTL	<1983	493	
Nb-94						
41094.30y	93.9073	llldos	LLNL/ACTL	<1983	331	
Nb-95						
41095.30y	94.9068	llldos	LLNL/ACTL	<1983	333	
Nb-96						
41096.30y	95.9081	llldos	LLNL/ACTL	<1983	335	
Nb-97						
41097.30y	96.9081	llldos	LLNL/ACTL	<1983	339	
Nb-98						
41098.30y	97.9103	llldos	LLNL/ACTL	<1983	341	
Nb-100						
41100.30y	99.9142	llldos	LLNL/ACTL	<1983	349	
		Z = 42, molybdenum				
Mo-90						
42090.30y	89.9139	llldos	LLNL/ACTL	<1983	261	
Mo-91						
42091.30y	90.9118	llldos	LLNL/ACTL	<1983	281	
Mo-92						
42092.26y	91.21	532dos	ENDF/B-V	1980	7815	
42092.30y	91.9068	llldos	LLNL/ACTL	<1983	537	
Mo-93						
42093.30y	92.9068	llldos	LLNL/ACTL	<1983	429	
42093.31y	92.9068	llldos	LLNL/ACTL	<1983	461	
Mo-94						
42094.30y	93.9051	llldos	LLNL/ACTL	<1983	443	
Mo-95						
42095.30y	94.9058	llldos	LLNL/ACTL	<1983	523	
Mo-96						
42096.30y	95.9047	llldos	LLNL/ACTL	<1983	501	
Mo-97						
42097.30y	96.906	llldos	LLNL/ACTL	<1983	427	
Mo-98						
42098.26y	97.0644	532dos	ENDF/B-V	1980	6489	
42098.30y	97.9054	llldos	LLNL/ACTL	<1983	421	
Mo-99						

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Table 14: Dosimetry data libraries for `MCNP` tallies (continued)

ZAID	AWR	Library	Source	Date	Length	Notes
42099.30y	98.9077	llldos	LLNL/ACTL	<1983	445	
Mo-100						
42100.26y	99.0492	532dos	ENDF/B-V	1980	4971	
42100.30y	99.9075	llldos	LLNL/ACTL	<1983	427	
Mo-101						
42101.30y	100.91	llldos	LLNL/ACTL	<1983	447	
		Z = 43, technetium				
Tc-99						
43099.30y	98.9062	llldos	LLNL/ACTL	<1983	469	
43099.31y	98.9062	llldos	LLNL/ACTL	<1983	469	
		Z = 45, rhodium				
Rh-103						
45103.30y	102.906	llldos	LLNL/ACTL	<1983	275	
		Z = 46, palladium				
Pd-110						
46110.30y	109.905	llldos	LLNL/ACTL	<1983	417	
		Z = 47, silver				
Ag-106						
47106.30y	105.907	llldos	LLNL/ACTL	<1983	263	
47106.31y	105.907	llldos	LLNL/ACTL	<1983	265	
Ag-107						
47107.30y	106.905	llldos	LLNL/ACTL	<1983	517	
Ag-108						
47108.30y	107.906	llldos	LLNL/ACTL	<1983	275	
47108.31y	107.906	llldos	LLNL/ACTL	<1983	275	
Ag-109						
47109.30y	108.905	llldos	LLNL/ACTL	<1983	583	
Ag-110						
47110.30y	109.906	llldos	LLNL/ACTL	<1983	277	
47110.31y	109.906	llldos	LLNL/ACTL	<1983	281	
		Z = 48, cadmium				
Cd-106						
48106.30y	105.906	llldos	LLNL/ACTL	<1983	177	
Cd-111						
48111.30y	110.904	llldos	LLNL/ACTL	<1983	317	
Cd-112						
48112.30y	111.903	llldos	LLNL/ACTL	<1983	221	
Cd-116						
48116.30y	115.905	llldos	LLNL/ACTL	<1983	231	
		Z = 49, indium				
In-113						
49113.30y	112.904	llldos	LLNL/ACTL	<1983	861	
In-115						
49115.24y	113.92	531dos	ENDF/B-V	1978	26009	
49115.26y	113.92	532dos	ENDF/B-V	1978	26009	
49115.30y	114.904	llldos	LLNL/ACTL	<1983	1265	
		Z = 50, tin				

Continued on next page.

Table 14: Dosimetry data libraries for MCNP tallies (continued)

ZAID	AWR	Library	Source	Date	Length	Notes
Sn-112						
50112.30y	111.905	llldos	LLNL/ACTL	<1983	789	
Sn-114						
50114.30y	113.903	llldos	LLNL/ACTL	<1983	435	
Sn-115						
50115.30y	114.903	llldos	LLNL/ACTL	<1983	389	
Sn-116						
50116.30y	115.902	llldos	LLNL/ACTL	<1983	603	
Sn-117						
50117.30y	116.903	llldos	LLNL/ACTL	<1983	313	
Sn-118						
50118.30y	117.902	llldos	LLNL/ACTL	<1983	745	
Sn-119						
50119.30y	118.903	llldos	LLNL/ACTL	<1983	311	
Sn-120						
50120.26y	118.872	532dos	ENDF/B-V	1974	12881	
50120.30y	119.902	llldos	LLNL/ACTL	<1983	309	
Sn-122						
50122.26y	120.856	532dos	ENDF/B-V	1974	1891	
50122.30y	121.903	llldos	LLNL/ACTL	<1983	275	
Sn-124						
50124.26y	122.841	532dos	ENDF/B-V	1974	1693	
50124.30y	123.905	llldos	LLNL/ACTL	<1983	485	
		Z = 51, antimony				
Sb-121						
51121.30y	120.904	llldos	LLNL/ACTL	<1983	811	
Sb-123						
51123.30y	122.904	llldos	LLNL/ACTL	<1983	1013	
		Z = 53, iodine				
I-127						
53127.24y	125.814	531dos	ENDF/B-V	1972	115	
53127.26y	125.814	532dos	ENDF/B-V	1980	14145	
53127.30y	126.904	llldos	LLNL/ACTL	<1983	221	
		Z = 55, cesium				
Cs-133						
55133.30y	132.905	llldos	LLNL/ACTL	<1983	215	
		Z = 57, lanthanum				
La-139						
57139.26y	137.713	532dos	ENDF/B-V	1980	15475	
		Z = 58, cerium				
Ce-140						
58140.30y	139.905	llldos	LLNL/ACTL	<1983	427	
Ce-142						
58142.30y	141.909	llldos	LLNL/ACTL	<1983	265	
		Z = 59, praseodymium				
Pr-141						
59141.30y	140.908	llldos	LLNL/ACTL	<1983	215	

Continued on next page.

473

Table 14: Dosimetry data libraries for `MCNP` tallies (continued)

ZAID	AWR	Library	Source	Date	Length	Notes
		Z = 60, neodymium				
Nd-142						
60142.30y	141.908	llldos	LLNL/ACTL	<1983	207	
Nd-148						
60148.30y	147.917	llldos	LLNL/ACTL	<1983	255	
Nd-150						
60150.30y	149.921	llldos	LLNL/ACTL	<1983	259	
		Z = 62, samarium				
Sm-144						
62144.30y	143.912	llldos	LLNL/ACTL	<1983	189	
Sm-148						
62148.30y	147.915	llldos	LLNL/ACTL	<1983	245	
Sm-152						
62152.30y	151.92	llldos	LLNL/ACTL	<1983	237	
Sm-154						
62154.30y	153.922	llldos	LLNL/ACTL	<1983	247	
		Z = 63, europium				
Eu-151						
63151.30y	150.92	llldos	LLNL/ACTL	<1983	731	
Eu-153						
63153.30y	152.921	llldos	LLNL/ACTL	<1983	565	
		Z = 64, gadolinium				
Gd-150						
64150.30y	149.919	llldos	LLNL/ACTL	<1983	237	
Gd-151						
64151.30y	150.92	llldos	LLNL/ACTL	<1983	241	
		Z = 66, dysprosium				
Dy-164						
66164.26y	162.52	532dos	ENDF/B-V	1967	581	
		Z = 67, holmium				
Ho-163						
67163.30y	162.929	llldos	LLNL/ACTL	<1983	533	
Ho-164						
67164.30y	163.93	llldos	LLNL/ACTL	<1983	327	
67164.31y	163.93	llldos	LLNL/ACTL	<1983	327	
Ho-165						
67165.30y	164.93	llldos	LLNL/ACTL	<1983	589	
Ho-166						
67166.30y	165.932	llldos	LLNL/ACTL	<1983	333	
67166.31y	165.932	llldos	LLNL/ACTL	<1983	333	
		Z = 69, thulium				
Tm-169						
69169.30y	168.934	llldos	LLNL/ACTL	<1983	453	
		Z = 71, lutetium				
Lu-173						
71173.30y	172.939	llldos	LLNL/ACTL	<1983	587	
Lu-174						

Continued on next page.

Table 14: Dosimetry data libraries for `MCNP` tallies (continued)

ZAID	AWR	Library	Source	Date	Length	Notes
71174.30y	173.94	llldos	LLNL/ACTL	<1983	417	
71174.31y	173.94	llldos	LLNL/ACTL	<1983	465	
Lu-175						
71175.30y	174.941	llldos	LLNL/ACTL	<1983	559	
Lu-176						
71176.30y	175.943	llldos	LLNL/ACTL	<1983	621	
71176.31y	175.943	llldos	LLNL/ACTL	<1983	637	
Lu-177						
71177.30y	176.944	llldos	LLNL/ACTL	<1983	573	
71177.31y	176.944	llldos	LLNL/ACTL	<1983	573	
Z = 72, hafnium						
Hf-174						
72174.30y	173.94	llldos	LLNL/ACTL	<1983	147	
Hf-175						
72175.30y	174.941	llldos	LLNL/ACTL	<1983	121	
Hf-176						
72176.30y	175.941	llldos	LLNL/ACTL	<1983	153	
Hf-177						
72177.30y	176.943	llldos	LLNL/ACTL	<1983	157	
Hf-178						
72178.30y	177.944	llldos	LLNL/ACTL	<1983	153	
Hf-179						
72179.30y	178.946	llldos	LLNL/ACTL	<1983	433	
Hf-180						
72180.30y	179.947	llldos	LLNL/ACTL	<1983	409	
Hf-181						
72181.30y	180.949	llldos	LLNL/ACTL	<1983	365	
Hf-183						
72183.30y	182.954	llldos	LLNL/ACTL	<1983	373	
Z = 73, tantalum						
Ta-179						
73179.30y	178.946	llldos	LLNL/ACTL	<1983	629	
Ta-180						
73180.30y	179.947	llldos	LLNL/ACTL	<1983	523	
73180.31y	179.947	llldos	LLNL/ACTL	<1983	435	
Ta-181						
73181.30y	180.948	llldos	LLNL/ACTL	<1983	715	
Ta-182						
73182.30y	181.95	llldos	LLNL/ACTL	<1983	435	
73182.31y	181.95	llldos	LLNL/ACTL	<1983	447	
Ta-183						
73183.30y	182.951	llldos	LLNL/ACTL	<1983	425	
Ta-184						
73184.30y	183.954	llldos	LLNL/ACTL	<1983	371	
Ta-186						
73186.30y	185.959	llldos	LLNL/ACTL	<1983	377	
Z = 74, tungsten						

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ZAID	AWR	Library	Source	Date	Length	Notes
W-179						
74179.30y	178.947	llldos	LLNL/ACTL	<1983	263	
W-180						
74180.30y	179.947	llldos	LLNL/ACTL	<1983	397	
W-181						
74181.30y	180.948	llldos	LLNL/ACTL	<1983	263	
W-182						
74182.30y	181.948	llldos	LLNL/ACTL	<1983	415	
W-183						
74183.30y	182.95	llldos	LLNL/ACTL	<1983	499	
W-184						
74184.30y	183.951	llldos	LLNL/ACTL	<1983	443	
W-185						
74185.30y	184.953	llldos	LLNL/ACTL	<1983	267	
W-186						
74186.30y	185.954	llldos	LLNL/ACTL	<1983	413	
W-187						
74187.30y	186.957	llldos	LLNL/ACTL	<1983	279	
W-188						
74188.30y	187.958	llldos	LLNL/ACTL	<1983	271	
		Z = 75, rhenium				
Re-184						
75184.30y	183.953	llldos	LLNL/ACTL	<1983	331	
75184.31y	183.953	llldos	LLNL/ACTL	<1983	335	
Re-185						
75185.30y	184.953	llldos	LLNL/ACTL	<1983	373	
Re-186						
75186.30y	185.955	llldos	LLNL/ACTL	<1983	381	
Re-187						
75187.30y	186.956	llldos	LLNL/ACTL	<1983	547	
Re-188						
75188.30y	187.958	llldos	LLNL/ACTL	<1983	339	
75188.31y	187.958	llldos	LLNL/ACTL	<1983	341	
		Z = 77, iridium				
Ir-191						
77191.30y	190.961	llldos	LLNL/ACTL	<1983	237	
Ir-193						
77193.30y	192.963	llldos	LLNL/ACTL	<1983	243	
Ir-194						
77194.30y	193.965	llldos	LLNL/ACTL	<1983	421	
		Z = 78, platinum				
Pt-190						
78190.30y	189.96	llldos	LLNL/ACTL	<1983	151	
Pt-192						
78192.30y	191.961	llldos	LLNL/ACTL	<1983	153	
Pt-193						
78193.30y	192.963	llldos	LLNL/ACTL	<1983	123	

Continued on next page.

Table 14: Dosimetry data libraries for `MCNP` tallies (continued)

ZAID	AWR	Library	Source	Date	Length	Notes
78193.31y	192.963	llldos	LLNL/ACTL	<1983	123	
Pt-194						
78194.30y	193.963	llldos	LLNL/ACTL	<1983	211	
Pt-195						
78195.30y	194.965	llldos	LLNL/ACTL	<1983	157	
Pt-196						
78196.30y	195.965	llldos	LLNL/ACTL	<1983	157	
Pt-197						
78197.30y	196.967	llldos	LLNL/ACTL	<1983	427	
78197.31y	196.967	llldos	LLNL/ACTL	<1983	129	
Pt-198						
78198.30y	197.968	llldos	LLNL/ACTL	<1983	183	
Pt-199						
78199.30y	198.971	llldos	LLNL/ACTL	<1983	99	
78199.31y	198.971	llldos	LLNL/ACTL	<1983	99	
Z = 79, gold						
Au-193						
79193.30y	192.964	llldos	LLNL/ACTL	<1983	209	
Au-194						
79194.30y	193.965	llldos	LLNL/ACTL	<1983	261	
Au-195						
79195.30y	194.965	llldos	LLNL/ACTL	<1983	261	
Au-196						
79196.30y	195.967	llldos	LLNL/ACTL	<1983	265	
79196.31y	195.967	llldos	LLNL/ACTL	<1983	265	
Au-197						
79197.30y	196.967	llldos	LLNL/ACTL	<1983	307	
Au-198						
79198.30y	197.968	llldos	LLNL/ACTL	<1983	265	
Au-199						
79199.30y	198.969	llldos	LLNL/ACTL	<1983	269	
Au-200						
79200.30y	199.971	llldos	LLNL/ACTL	<1983	39	
Z = 80, mercury						
Hg-202						
80202.30y	201.971	llldos	LLNL/ACTL	<1983	381	
Hg-203						
80203.30y	202.973	llldos	LLNL/ACTL	<1983	379	
Hg-204						
80204.30y	203.973	llldos	LLNL/ACTL	<1983	365	
Z = 81, thallium						
Tl-202						
81202.30y	201.972	llldos	LLNL/ACTL	<1983	377	
Tl-203						
81203.30y	202.972	llldos	LLNL/ACTL	<1983	375	
Tl-204						
81204.30y	203.974	llldos	LLNL/ACTL	<1983	373	

Continued on next page.

Table 14: Dosimetry data libraries for `MCNP` tallies (continued)

ZAID	AWR	Library	Source	Date	Length	Notes
Tl-205						
81205.30y	204.974	llldos	LLNL/ACTL	<1983	369	
			Z = 82, lead			
Pb-203						
82203.30y	202.973	llldos	LLNL/ACTL	<1983	257	
Pb-204						
82204.30y	203.973	llldos	LLNL/ACTL	<1983	405	
Pb-205						
82205.30y	204.974	llldos	LLNL/ACTL	<1983	257	
Pb-206						
82206.30y	205.974	llldos	LLNL/ACTL	<1983	347	
Pb-207						
82207.30y	206.976	llldos	LLNL/ACTL	<1983	333	
Pb-208						
82208.30y	207.977	llldos	LLNL/ACTL	<1983	263	
Pb-209						
82209.30y	208.981	llldos	LLNL/ACTL	<1983	279	
Pb-210						
82210.30y	209.984	llldos	LLNL/ACTL	<1983	351	
			Z = 83, bismuth			
Bi-208						
83208.30y	207.98	llldos	LLNL/ACTL	<1983	409	
Bi-209						
83209.30y	208.98	llldos	LLNL/ACTL	<1983	551	
Bi-210						
83210.30y	209.984	llldos	LLNL/ACTL	<1983	421	
83210.31y	209.984	llldos	LLNL/ACTL	<1983	421	
			Z = 84, polonium			
Po-210						
84210.30y	209.983	llldos	LLNL/ACTL	<1983	441	
			Z = 90, thorium			
Th-230						
90230.30y	230.033	llldos	LLNL/ACTL	<1983	209	
Th-231						
90231.30y	231.036	llldos	LLNL/ACTL	<1983	599	
Th-232						
90232.30y	232.038	llldos	LLNL/ACTL	<1983	347	
Th-233						
90233.30y	233.042	llldos	LLNL/ACTL	<1983	561	
Th-234						
90234.30y	234.044	llldos	LLNL/ACTL	<1983	37	
			Z = 91, protactinium			
Pa-231						
91231.26y	229.05	532dos	ENDF/B-V	1978	2861	
Pa-233						
91233.26y	231.038	532dos	ENDF/B-V	1978	73	
91233.30y	233.04	llldos	LLNL/ACTL	<1983	361	

Continued on next page.

Table 14: Dosimetry data libraries for `MCNP` tallies (continued)

ZAID	AWR	Library	Source	Date	Length	Notes
			Z = 92, uranium			
U-233						
92233.26y	231.043	532dos	ENDF/B-V	1978	75	
92233.30y	233.04	llldos	LLNL/ACTL	<1983	461	
U-234						
92234.30y	234.041	llldos	LLNL/ACTL	<1983	393	
U-235						
92235.30y	235.044	llldos	LLNL/ACTL	<1983	4629	
U-236						
92236.30y	236.046	llldos	LLNL/ACTL	<1983	395	
U-237						
92237.30y	237.049	llldos	LLNL/ACTL	<1983	609	
U-238						
92238.30y	238.051	llldos	LLNL/ACTL	<1983	3103	
U-239						
92239.30y	239.054	llldos	LLNL/ACTL	<1983	825	
U-240						
92240.30y	240.057	llldos	LLNL/ACTL	<1983	389	
			Z = 93, neptunium			
Np-237						
93237.30y	237.048	llldos	LLNL/ACTL	<1983	629	
			Z = 94, plutonium			
Pu-237						
94237.30y	237.048	llldos	LLNL/ACTL	<1983	487	
Pu-238						
94238.30y	238.05	llldos	LLNL/ACTL	<1983	459	
Pu-239						
94239.30y	239.052	llldos	LLNL/ACTL	<1983	497	
Pu-240						
94240.30y	240.054	llldos	LLNL/ACTL	<1983	479	
Pu-241						
94241.30y	241.057	llldos	LLNL/ACTL	<1983	559	
Pu-242						
94242.30y	242.059	llldos	LLNL/ACTL	<1983	505	
Pu-243						
94243.30y	243.062	llldos	LLNL/ACTL	<1983	511	
			Z = 95, americium			
Am-241						
95241.30y	241.057	llldos	LLNL/ACTL	<1983	673	
Am-242						
95242.30y	242.06	llldos	LLNL/ACTL	<1983	473	
Am-243						
95243.30y	243.061	llldos	LLNL/ACTL	<1983	431	
			Z = 96, curium			
Cm-242						
96242.30y	242.059	llldos	LLNL/ACTL	<1983	467	
Cm-243						

Continued on next page.

Table 14: Dosimetry data libraries for `MCNP` tallies (continued)

ZAID	AWR	Library	Source	Date	Length	Notes
96243.30y	243.061	llldos	LLNL/ACTL	<1983	465	
Cm-244						
96244.30y	244.063	llldos	LLNL/ACTL	<1983	483	
Cm-245						
96245.30y	245.065	llldos	LLNL/ACTL	<1983	465	
Cm-246						
96246.30y	246.067	llldos	LLNL/ACTL	<1983	491	
Cm-247						
96247.30y	247.07	llldos	LLNL/ACTL	<1983	491	
Cm-248						
96248.30y	248.072	llldos	LLNL/ACTL	<1983	495	
		Z = 97, berkelium				
Bk-249						
97249.30y	249.075	llldos	LLNL/ACTL	<1983	545	
		Z = 98, californium				
Cf-249						
98249.30y	249.075	llldos	LLNL/ACTL	<1983	491	
Cf-250						
98250.30y	250.076	llldos	LLNL/ACTL	<1983	335	
Cf-251						
98251.30y	251.08	llldos	LLNL/ACTL	<1983	485	
Cf-252						
98252.30y	252.082	llldos	LLNL/ACTL	<1983	467	

10 Electron Data

Table 15: Electron data libraries

ZAID	Electron AWR	Library Name	Length (words)	Notes
	Z = 1, hydrogen			
H-0				
1000.03e	0.999317	el03	2329	
1000.01e	0.999317	el	478	
	Z = 2, helium			
He-0				
2000.03e	3.968217	el03	2329	
2000.01e	3.968217	el	478	
	Z = 3, lithium			
Li-0				
3000.03e	6.881312	el03	2331	
3000.01e	6.881312	el	478	
	Z = 4, beryllium			
Be-0				
4000.03e	8.934763	el03	2331	
4000.01e	8.934763	el	478	
	Z = 5, boron			
B-0				
5000.03e	10.717168	el03	2331	
5000.01e	10.717168	el	478	
	Z = 6, carbon			
C-0				
6000.03e	11.907955	el03	2333	
6000.01e	11.907955	el	478	
	Z = 7, nitrogen			
N-0				
7000.03e	13.886438	el03	2333	
7000.01e	13.886438	el	478	
	Z = 8, oxygen			
O-0				
8000.03e	15.861942	el03	2333	
8000.01e	15.861942	el	478	
	Z = 9, fluorine			
F-0				
9000.03e	18.835197	el03	2333	
9000.01e	18.835197	el	478	
	Z = 10, neon			
Ne-0				
10000.03e	20.006093	el03	2335	
10000.01e	20.006093	el	478	
	Z = 11, sodium			
Na-0				
11000.03e	22.792275	el03	2337	
11000.01e	22.792275	el	478	
	Z = 12, magnesium			

Continued on next page.

ZAID	Electron AWR	Library Name	Length (words)	Notes
Mg-0				
12000.03e	24.096261	el03	2337	
12000.01e	24.096261	el	478	
Z = 13, aluminum				
Al-0				
13000.03e	26.749756	el03	2337	
13000.01e	26.749756	el	478	
Z = 14, silicon				
Si-0				
14000.03e	27.844241	el03	2339	
14000.01e	27.844241	el	478	
Z = 15, phosphorus				
P-0				
15000.03e	30.707682	el03	2339	
15000.01e	30.707682	el	478	
Z = 16, sulfur				
S-0				
16000.03e	31.788823	el03	2339	
16000.01e	31.788823	el	478	
Z = 17, chlorine				
Cl-0				
17000.03e	35.14818	el03	2339	
17000.01e	35.14818	el	478	
Z = 18, argon				
Ar-0				
18000.03e	39.604489	el03	2341	
18000.01e	39.604489	el	478	
Z = 19, potassium				
K-0				
19000.03e	38.762423	el03	2343	
19000.01e	38.762423	el	478	
Z = 20, calcium				
Ca-0				
20000.03e	39.733857	el03	2343	
20000.01e	39.733857	el	478	
Z = 21, scandium				
Sc-0				
21000.03e	44.569718	el03	2343	
21000.01e	44.569718	el	478	
Z = 22, titanium				
Ti-0				
22000.03e	47.455747	el03	2345	
22000.01e	47.455747	el	478	
Z = 23, vanadium				
V-0				
23000.03e	50.503856	el03	2345	

Continued on next page.

ZAID	Electron AWR	Library Name	Length (words)	Notes
23000.01e	50.503856	el	478	
Z = 24, chromium				
Cr-0				
24000.03e	51.549253	el03	2345	
24000.01e	51.549253	el	478	
Z = 25, manganese				
Mn-0				
25000.03e	54.466099	el03	2345	
25000.01e	54.466099	el	478	
Z = 26, iron				
Fe-0				
26000.03e	55.366466	el03	2345	
26000.01e	55.366466	el	478	
Z = 27, cobalt				
Co-0				
27000.03e	58.42693	el03	2345	
27000.01e	58.42693	el	478	
Z = 28, nickel				
Ni-0				
28000.03e	58.182641	el03	2347	
28000.01e	58.182641	el	478	
Z = 29, copper				
Cu-0				
29000.03e	62.999157	el03	2347	
29000.01e	62.999157	el	478	
Z = 30, zinc				
Zn-0				
30000.03e	64.835472	el03	2347	
30000.01e	64.835472	el	478	
Z = 31, gallium				
Ga-0				
31000.03e	69.12427	el03	2347	
31000.01e	69.12427	el	478	
Z = 32, germanium				
Ge-0				
32000.03e	72.008301	el03	2349	
32000.01e	72.008301	el	478	
Z = 33, arsenic				
As-0				
33000.03e	74.277979	el03	2349	
33000.01e	74.277979	el	478	
Z = 34, selenium				
Se-0				
34000.03e	78.310715	el03	2349	
34000.01e	78.310715	el	478	
Z = 35, bromine				

Continued on next page.

Table 15: Electron data libraries (continued)

ZAID	Electron AWR	Library Name	Length (words)	Notes
Br-0				
35000.03e	79.217113	el03	2349	
35000.01e	79.217113	el	478	
	Z = 36, krypton			
Kr-0				
36000.03e	83.080137	el03	2351	
36000.01e	83.080137	el	478	
	Z = 37, rubidium			
Rb-0				
37000.03e	84.733459	el03	2353	
37000.01e	84.733459	el	478	
	Z = 38, strontium			
Sr-0				
38000.03e	86.864379	el03	2353	
38000.01e	86.864279	el	478	
	Z = 39, yttrium			
Y-0				
39000.03e	88.142108	el03	2353	
39000.01e	88.142108	el	478	
	Z = 40, zirconium			
Zr-0				
40000.03e	90.439594	el03	2353	
40000.01e	90.439594	el	478	
	Z = 41, niobium			
Nb-0				
41000.03e	92.108263	el03	2355	
41000.01e	92.108263	el	478	
	Z = 42, molybdenum			
Mo-0				
42000.03e	95.106691	el03	2353	
42000.01e	95.106691	el	478	
	Z = 43, technetium			
Tc-0				
43000.03e	96.073885	el03	2355	
43000.01e	96.073885	el	478	
	Z = 44, ruthenium			
Ru-0				
44000.03e	100.201894	el03	2355	
44000.01e	100.201894	el	478	
	Z = 45, rhodium			
Rh-0				
45000.03e	102.02149	el03	2355	
45000.01e	102.02149	el	478	
	Z = 46, palladium			
Pd-0				
46000.03e	150.513949	el03	2355	

Continued on next page.

Table 15: Electron data libraries (continued)

ZAID	Electron AWR	Library Name	Length (words)	Notes
46000.01e	105.513949	el	478	
Z = 47, silver				
Ag-0				
47000.03e	106.941685	el03	2357	
47000.01e	160.941685	el	478	
Z = 48, cadmium				
Cd-0				
48000.03e	111.442363	el03	2357	
48000.01e	111.442363	el	478	
Z = 49, indium				
In-0				
49000.03e	113.831536	el03	2357	
49000.01e	113.831536	el	478	
Z = 50, tin				
Sn-0				
50000.03e	117.667336	el03	2359	
50000.01e	117.667336	el	478	
Z = 51, antimony				
Sb-0				
51000.03e	120.712028	el03	2359	
51000.01e	120.712028	el	478	
Z = 52, tellurium				
Te-0				
52000.03e	126.527819	el03	2359	
52000.01e	126.527819	el	478	
Z = 53, iodine				
I-0				
53000.03e	125.8143	el03	2359	
53000.01e	125.8143	el	478	
Z = 54, xenon				
Xe-0				
54000.03e	130.165202	el03	2361	
54000.01e	130.165202	el	478	
Z = 55, cesium				
Cs-0				
55000.03e	131.763705	el03	2363	
55000.01e	131.763705	el	478	
Z = 56, barium				
Ba-0				
56000.03e	136.146809	el03	2363	
56000.01e	136.146809	el	478	
Z = 57, lanthanum				
La-0				
57000.03e	137.712194	el03	2363	
57000.01e	137.712194	el	478	
Z = 58, cerium				

Continued on next page.

Table 15: Electron data libraries (continued)

ZAID	Electron AWR	Library Name	Length (words)	Notes
Ce-0				
58000.03e	138.911207	el03	2365	
58000.01e	138.911207	el	478	
	Z = 59, praseodymium			
Pr-0				
59000.03e	139.697185	el03	2365	
59000.01e	139.697185	el	478	
	Z = 60, neodymium			
Nd-0				
60000.03e	142.997075	el03	2365	
60000.01e	142.997075	el	478	
	Z = 61, promethium			
Pm-0				
61000.03e	143.667877	el03	2365	
61000.01e	143.667877	el	478	
	Z = 62, samarium			
Sm-0				
62000.03e	149.060207	el03	2365	
62000.01e	149.060207	el	478	
	Z = 63, europium			
Eu-0				
63000.03e	150.657141	el03	2365	
63000.01e	150.657141	el	478	
	Z = 64, gadolinium			
Gd-0				
64000.03e	155.900158	el03	2365	
64000.01e	155.900158	el	478	
	Z = 65, terbium			
Tb-0				
65000.03e	157.560097	el03	2365	
65000.01e	157.560097	el	478	
	Z = 66, dysprosium			
Dy-0				
66000.03e	161.098819	el03	2365	
66000.01e	161.098819	el	478	
	Z = 67, holmium			
Ho-0				
67000.03e	163.513493	el03	2365	
67000.01e	163.513493	el	478	
	Z = 68, erbium			
Er-0				
68000.03e	165.82535	el03	2365	
68000.01e	165.82535	el	478	
	Z = 69, thulium			
Tm-0				
69000.03e	167.48299	el03	2365	

Continued on next page.

ZAID	Electron AWR	Library Name	Length (words)	Notes
69000.01e	167.48299	el	478	
Z = 70, ytterbium				
Yb-0				
70000.03e	171.537027	el03	2367	
70000.01e	171.537027	el	478	
Z = 71, lutetium				
Lu-0				
71000.03e	173.463777	el03	2367	
71000.01e	173.463777	el	478	
Z = 72, hafnium				
Hf-0				
72000.03e	176.956288	el03	2367	
72000.01e	176.956288	el	478	
Z = 73, tantalum				
Ta-0				
73000.03e	179.393456	el03	2367	
73000.01e	179.393456	el	478	
Z = 74, tungsten				
W-0				
74000.03e	182.269548	el03	2367	
74000.01e	182.269548	el	478	
Z = 75, rhenium				
Re-0				
75000.03e	184.607108	el03	2369	
75000.01e	184.607108	el	478	
Z = 76, osmium				
Os-0				
76000.03e	188.605651	el03	2369	
76000.01e	188.605651	el	478	
Z = 77, iridium				
Ir-0				
77000.03e	190.564832	el03	2369	
77000.01e	190.564832	el	478	
Z = 78, platinum				
Pt-0				
78000.03e	193.404225	el03	2369	
78000.01e	193.404225	el	478	
Z = 79, gold				
Au-0				
79000.03e	195.274513	el03	2371	
79000.01e	195.274513	el	478	
Z = 80, mercury				
Hg-0				
80000.03e	198.875705	el03	2371	
80000.01e	198.875705	el	478	
Z = 81, thallium				

Continued on next page.

Table 15: Electron data libraries (continued)

ZAID	Electron AWR	Library Name	Length (words)	Notes
Tl-0				
81000.03e	202.628033	el03	2373	
81000.01e	202.628033	el	478	
Z = 82, lead				
Pb-0				
82000.03e	205.436151	el03	2373	
82000.01e	205.436151	el	478	
Z = 83, bismuth				
Bi-0				
83000.03e	207.185136	el03	2373	
83000.01e	207.185136	el	478	
Z = 84, polonium				
Po-0				
84000.03e	207.187152	el03	2373	
84000.01e	207.187152	el	478	
Z = 85, astatine				
At-0				
85000.03e	208.183242	el03	2375	
85000.01e	208.183242	el	478	
Z = 86, radon				
Rn-0				
86000.03e	220.110325	el03	2375	
86000.01e	220.110325	el	478	
Z = 87, francium				
Fr-0				
87000.03e	221.103876	el03	2377	
87000.01e	221.103876	el	478	
Z = 88, radium				
Ra-0				
88000.03e	224.083728	el03	2377	
88000.01e	224.083728	el	478	
Z = 89, actinium				
Ac-0				
89000.03e	225.077462	el03	2377	
89000.01e	225.077462	el	478	
Z = 90, thorium				
Th-0				
90000.03e	230.044724	el03	2377	
90000.01e	230.044724	el	478	
Z = 91, protactinium				
Pa-0				
91000.03e	229.05116	el03	2379	
91000.01e	229.05116	el	478	
Z = 92, uranium				
U-0				
92000.03e	235.984125	el03	2379	

Continued on next page.

Table 15: Electron data libraries (continued)

ZAID	Electron AWR	Library Name	Length (words)	Notes
92000.01e	235.984125	el	478	
	Z = 93, neptunium			
Np-0				
93000.03e	235.011799	el03	2379	
93000.01e	235.011799	el	478	
	Z = 94, plutonium			
Pu-0				
94000.03e	241.967559	el03	2379	
94000.01e	241.967559	el	478	
	Z = 95, americium			
Am-0				
95000.03e	240.972982	el03	2379	
	Z = 96, curium			
Cm-0				
96000.03e	244.947545	el03	2379	
	Z = 97, berkelium			
Bk-0				
97000.03e	244.947545	el03	2379	
	Z = 98, californium			
Cf-0				
98000.03e	248.923092	el03	2379	
	Z = 99, einsteinium			
Es-0				
99000.03e	249.91766	el03	2379	
	Z = 100, fermium			
Fm-0				
100000.03e	254.88641	el03	2379	

11 Proton Data

Proton transport has been available in `MCNP` for a while. The ACE files described below contain proton incident cross sections for quite a few target isotopes. The files designated as `ENDF70PROT` were generated from the evaluated data in the ENDF/B-VII.0 data release. The other tables are from older data evaluations.

ZAID	Proton AWR	Library Name	Length (words)	Notes
		$Z = 1$, hydrogen		
H-1				
1001.70h	0.99917	endf70prot	15895	
1001.24h	0.99917	la150h	15895	
H-2				
1002.70h	1.9968	endf70prot	5962	
1002.24h	1.9968	la150h	5824	
H-3				
1003.70h	2.989596	endf70prot	19902	
		$Z = 2$, helium		
He-3				
2003.70h	2.9901	endf70prot	8310	
		$Z = 3$, lithium		
Li-6				
3006.70h	5.961817	endf70prot	22458	
Li-7				
3007.70h	6.9541	endf70prot	36745	
		$Z = 4$, beryllium		
Be-9				
4009.70h	8.934761	endf70prot	66217	
		$Z = 5$, boron		
B-10				
5010.70h	9.9242	endf70prot	9715	
		$Z = 6$, carbon		
C-12				
6012.70h	11.89691	endf70prot	51762	
6012.24h	11.89691	la150h	51762	
		$Z = 7$, nitrogen		
N-14				
7014.70h	13.88278	endf70prot	71369	
7014.24h	13.88278	la150h	71369	
		$Z = 8$, oxygen		
O-16				
8016.70h	15.85751	endf70prot	54535	
8016.24h	15.85751	la150h	54535	
		$Z = 13$, aluminum		
Al-27				
13027.70h	26.74997	endf70prot	86202	
13027.24h	26.74977	la150h	86202	
		$Z = 14$, silicon		
Si-28				
14028.70h	27.73659	endf70prot	98885	
14028.24h	27.73659	la150h	71809	
Si-29				
14029.70h	28.72757	endf70prot	82243	

Continued on next page.

ZAID	Proton AWR	Library Name	Length (words)	Notes
14029.24h	28.72757	la150h	82243	
Si-30				
14030.70h	29.71628	endf70prot	85016	
14030.24h	29.71628	la150h	85018	
Z = 15, phosphorus				
P-31				
15031.70h	30.70768	endf70prot	85621	
15031.24h	30.70768	la150h	85621	
Z = 20, calcium				
Ca-40				
20040.70h	39.61929	endf70prot	82706	
20040.24h	36.61929	la150h	69252	
Z = 24, chromium				
Cr-50				
24050.70h	49.51699	endf70prot	108001	
24050.24h	49.51699	la150h	108001	
Cr-52				
24052.70h	51.49432	endf70prot	111222	
24052.24h	51.49432	la150h	111226	
Cr-53				
24053.70h	52.48587	endf70prot	117028	
24053.24h	52.48587	la150h	117028	
Cr-54				
24054.70h	53.47552	endf70prot	117594	
24054.24h	53.47552	la150h	117594	
Z = 26, iron				
Fe-54				
26054.70h	53.47624	endf70prot	76348	
26054.24h	53.47624	la150h	76355	
Fe-56				
26056.70h	55.45443	endf70prot	82192	
26056.24h	55.45443	la150h	82212	
Fe-57				
26057.70h	56.4463	endf70prot	87558	
26057.24h	56.4463	la150h	87558	
Z = 28, nickel				
Ni-58				
28058.70h	57.43765	endf70prot	122652	
28058.24h	57.43765	la150h	109097	
Ni-60				
28060.70h	59.41596	endf70prot	112315	
28060.24h	59.41596	la150h	112315	
Ni-61				
28061.70h	60.40763	endf70prot	117868	
28061.24h	60.40763	la150h	117868	
Ni-62				

Continued on next page.

ZAID	Proton AWR	Library Name	Length (words)	Notes
28062.70h	61.39636	endf70prot	115583	
28062.24h	61.39636	la150h	115649	
Ni-64				
28064.70h	63.3788	endf70prot	118364	
28064.24h	63.3788	la150h	118364	
Z = 29, copper				
Cu-63				
29063.70h	62.389	endf70prot	104494	
29063.24h	62.389	la150h	91451	
Cu-65				
29065.70h	64.37003	endf70prot	96860	
29065.24h	64.37003	la150h	96860	
Z = 41, niobium				
Nb-93				
41093.70h	92.10827	endf70prot	105451	
41093.24h	92.10827	la150h	105451	
Z = 74, tungsten				
W-182				
74182.70h	180.3852	endf70prot	91147	
74182.24h	180.3852	la150h	91147	
W-183				
74183.70h	181.3786	endf70prot	93696	
74183.24h	181.3786	la150h	93696	
W-184				
74184.70h	182.3707	endf70prot	93014	
74184.24h	182.3707	la150h	93014	
W-186				
74186.70h	184.3569	endf70prot	94210	
74186.24h	187.3569	la150h	94210	
Z = 80, mercury				
Hg-196				
80196.70h	194.282	endf70prot	116805	
80196.24h	194.282	la150h	116823	
Hg-198				
80198.70h	196.266	endf70prot	118095	
80198.24h	196.266	la150h	118093	
Hg-199				
80199.70h	197.259	endf70prot	119759	
80199.24h	197.259	la150h	119757	
Hg-200				
80200.70h	198.25	endf70prot	118678	
80200.24h	198.25	la150h	118676	
Hg-201				
80201.70h	199.244	endf70prot	120946	
80201.24h	119.244	endf70prot	120946	
Hg-202				

Continued on next page.

Table 16: Proton data libraries (continued)

ZAID	Proton AWR	Library Name	Length (words)	Notes
80202.70h	200.236	endf70prot	119846	
80202.24h	200.236	la150h	119844	
Hg-204				
80204.70h	202.221	endf70prot	119894	
80204.24h	202.221	la150h	119892	
Z = 82, lead				
Pb-206				
82206.70h	204.205	endf70prot	89428	
82206.24h	204.205	la150h	89428	
Pb-207				
82207.70h	205.1978	endf70prot	90779	
82207.24h	205.1978	la150h	90779	
Pb-208				
82208.70h	206.19	endf70prot	80614	
82208.24h	206.19	la150h	89961	
Z = 83, bismuth				
Bi-209				
83209.70h	207.185	endf70prot	95609	
83209.24h	207.185	la150h	95609	

12 Charged-Particle Data

Starting with `MCNP6`, more charged particle transport options have become available in `MCNP`. The ACE tables listed below give tabular cross section data for low Z incident and low Z target charged particles. In the absence of this tabular cross section data, `MCNP` charged particle transport must fall back onto the more approximate "model" data.

Specifically, this new charged particle ACE formatted library includes hydrogen, helium, tritium, helion (^{3}He), and alpha as incident particles. Targets include all of these low Z ions as well as ^{6}Li and ^{7}Li. The usual convention of the lighter charged particle always being considered as the incident particle has been followed.

The evaluation files used to create this data come primarily from Gerry Hale at Los Alamos. He used R matrix theory supplemented by a few experimental measurements. However, the 4 data files from TENDL were generated using theoretical models only. The LANL evaluation files used here are expected to become the official distribution files from the NNDC in a few years.

With respect to previous proton cross sections, some of the proton incident files here have been updated slightly and all of the proton files here carry the `.71h` suffix—as opposed to the `.70h` suffix used in the `ENDF70PROT` files.

Table 17: Charged-particle data libraries

ZAID	Incident Particle	Particle ID	Target	Low E (MeV)	High E (MeV)	Source	Notes
			Z = 1, hydrogen				
H-1							
1001.71h	proton	h	proton	0.001	150	LANL	
H-2							
1002.70o	deuteron	d	deuteron	0.0001	10	LANL	
1002.71h	proton	h	deuteron	0.1	150	LANL	
H-3							
1003.70o	deuteron	d	triton	0.0001	10	LANL	
1003.71h	proton	h	triton	0.0001	12	LANL	
1003.70r	triton	t	triton	0.0001	2	LANL	
			Z = 2, helium				
He-3							
2003.70o	deuteron	d	helion	0.0001	1.4	LANL	
2003.70s	helion	s	helion	0.001	2	LANL	
2003.71h	proton	h	helion	0.001	20	LANL	
2003.70r	triton	t	helion	0.0001	3	LANL	
He-4							
2004.70a	alpha	a	alpha	0.1	20	LANL	
2004.70o	deuteron	d	alpha	0.01	10	LANL	
2004.70s	helion	s	alpha	0.02	11	LANL	
2004.71h	proton	h	alpha	0.02	20	LANL	
2004.70r	triton	t	alpha	0.1	14	LANL	
			Z = 3, lithium				
Li-6							
3006.70a	alpha	a	Li-6	1	200	TENDL	
3006.70o	deuteron	d	Li-6	0.001	1	LANL	
3006.70s	helion	s	Li-6	0.02	20	LANL	
3006.71h	proton	h	Li-6	0.0001	2.5	LANL	
3006.70r	triton	t	Li-6	0.02	20	LANL	
Li-7							
3007.70a	alpha	a	Li-7	1	200	TENDL	
3007.70o	deuteron	d	Li-7	0.02	20	LANL	
3007.70s	helion	s	Li-7	1	200	TENDL	
3007.71h	proton	h	Li-7	0.0001	2.5	LANL	
3007.70r	triton	t	Li-7	1	200	TENDL	

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