

CONFIDENTIAL

JEF REPORT 3

Table of Simple Integral Neutron Cross-Section Data
from JEF-1, ENDF/B-V, ENDL-82,
JENDL-2, KEDAK-4, RCN-3.

NEA Data Bank

July 1985

Introduction

The first library of the Joint Evaluated File (JEF-1) has been produced in cooperation between laboratories in several countries participating in the NEA Data Bank. The JEF-1 General Purpose Library contains a large amount of neutron data for about 300 isotopes, and an index has been published as JEF Report 1. The data have undergone a thorough checking using the codes CHECKER-5, FIZCON-5 and PSYCHE-5. Furthermore, graphical verification for pointwise cross-section data have been extensively performed. In this report a simple validation of the physical quality of the JEF-1 library has been performed, comparing some integral data, such as the thermal Maxwellian averages, the resonance integrals and the fission spectrum average data, with those of other evaluated libraries.

Comparison of Simple Integral Data for large Evaluated Libraries

Calculations of the following data at a temperature of 0°K were performed:

- a. Cross-sections at 2200 m/sec.
- b. Cross-sections averaged with the thermal 300°K Maxwellian spectrum in the energy range from 10^{-5} eV to 3 eV.
- c. Resonance integrals, with a $1/E$ weighting, for the energy range from the cut-off energy of 0.5 eV to 20 MeV.
- d. Cross-sections at 14 MeV.
- e. Cross-sections averaged with the Watt spectrum in the energy range from 10^{-5} eV to 20 MeV. The two constants used in the Watt spectrum were $a = 0.988 \times 10^6$ and $b = 2.249 \times 10^{-6}$, respectively. The Watt spectrum is given by:

$$W(E) = e^{-(E/a)} * \sinh(b*E)^{1/2}.$$

Preliminary calculations had already been performed for JEF-1, ENDF/B-IV, ENDF/B-V, UKNDL-81, ENDL-82, JENDL-1, JENDL-2 and KEDAK-3 in Ref.(1), for

An asterisk (*) following the value in the table indicates that the integration could not be performed over the whole energy range indicated above, as the evaluation did not span the entire region. This is mostly the case for threshold reactions and for the KEDAK and ENDL evaluations that covers 10^{-3} eV to 15 MeV and 10^{-4} eV to 20 MeV respectively.

References

- (1) T. Nakagawa and C. Nordborg: "Comparison of JEF-1 with Other Large Evaluated Files", JEF/DOC-25, 1983.
- (2) C. Nordborg: "Comparison of JEF-1 work with Other Large Evaluated Data Files", JEF/DOC-31, 1983.
- (3) H. Takano and C. Nordborg: "Comparison of Resonance Integrals and Thermal and Fast Cross Sections among JEF-1, JENDL-2, ENDF/B-V, KEDAK-4, UKNDL-81 and ENDL-82". JEF Users Group Meeting, December 1984.
- (4) INTERN, a program based on: "O. Ozer: Program INTEND, A Program to Integrate ENDF/B Cross Section Files, BNL-NCS-23498, 1977", modified at the NEA Data Bank to accept also the KEDAK and UKNDL formats.
- (5) "Guidebook for the ENDF/B-V Nuclear Data Files", ENDF-328, July 1982.

TABLE 1 : COMPARISON OF SIMPLE INTEGRAL DATA
BETWEEN JEF-1 AND SOME MAJOR
EVALUATED DATA LIBRARIES.

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.	
1-H - 1	TOTAL	JEF-1	4011	20.78	20.80	264.7	692.9-3	3.937	
		ENDF/B-5	1301	20.78	20.81	264.7	693.6-3	3.931	
		ENDL-82	1001	20.78	20.74	263.6	693.6-3	3.937 *	
		JENDL-2	2011	20.77	20.74	263.7	692.0-3	3.927	
	ELASTIC	JEF-1	4011	20.45	20.45	264.1	692.9-3	3.937	
		ENDF/B-5	1301	20.45	20.45	264.1	693.6-3	3.931	
		ENDL-82	1001	20.45	20.45	263.5	693.6-3	3.937 *	
		JENDL-2	2011	20.44	20.44	263.6	692.0-3	3.928	
	CAPTURE	JEF-1	4011	332.0-3	294.2-3	149.2-3	29.83-6	39.29-6	
		ENDF/B-5	1301	332.0-3	294.4-3	149.1-3	29.83-6	39.06-6	
		ENDL-82	1001	332.0-3	294.4-3 *	149.4-3	48.41-6	94.33-6 *	
		JENDL-2	2011	332.0-3	294.2-3	149.2-3	29.83-6	39.29-6	
1-H - 2	TOTAL	JEF-1	4012	3.351	3.350	53.20	797.0-3	2.524	
		ENDF/B-5	1302	3.396	3.396	53.59	810.0-3	2.541	
		ENDL-82	1002	3.401	3.401 *	53.85	815.3-3	2.565 *	
		JENDL-2	2012	3.390	3.390	53.51	801.5-3	2.538	
		KEDAK-4	10002	3.400	3.400 *	53.43	814.0-3	2.558 *	
	ELASTIC	JEF-1	4012	3.350	3.350	52.99	616.0-3	2.518	
		ENDF/B-5	1302	3.395	3.395	53.40	630.0-3	2.536	
		ENDL-82	1002	3.400	3.400 *	53.66	638.3-3	2.561 *	
		JENDL-2	2012	3.389	3.389	53.32	624.3-3	2.532	
		KEDAK-4	10002	3.397	3.397 *	53.28	634.1-3	2.552 *	
	(N,2N)	JEF-1	4012			190.3-3 *	181.0-3	5.042-3 *	
		ENDF/B-5	1302			188.6-3 *	180.0-3	5.467-3 *	
		ENDL-82	1002			184.6-3 *	176.9-3	4.867-3 *	
		JENDL-2	2012			182.3-3 *	177.2-3	5.276-3 *	
		KEDAK-4	10002			131.8-3 *	180.0-3	5.460-3 *	
	CAPTURE	JEF-1	4012	520.0-6	460.8-6	265.5-6	9.174-6	5.585-6	
		ENDF/B-5	1302	506.0-6	448.4-6	263.4-6	9.500-6	7.006-6	
		ENDL-82	1002	557.5-6	496.4-6 *	630.7-6	30.00-6	30.01-6 *	
		JENDL-2	2012	550.0-6	487.4-6	286.6-6	9.521-6	7.076-6	
		KEDAK-4	10002	500.0-6	447.2-6 *	263.7-6 *	9.500-6	7.008-6 *	
	1-H - 3	TOTAL	JEF-1	4013	1.300	1.300	24.49	975.0-3	1.925
			ENDF/B-5	1169	1.300	1.300	24.47	975.0-3	1.925
			ENDL-82	1003	1.300	1.300 *	24.48	980.3-3	1.927 *
			KEDAK-4	14003	1.300	1.300	24.46	973.0-3	1.923
ELASTIC		JEF-1	4013	1.300	1.300	24.45	925.0-3	1.925	
		ENDF/B-5	1169	1.300	1.300	24.43	925.0-3	1.925	
		ENDL-82	1003	1.300	1.300 *	24.44	931.8-3	1.927 *	
		KEDAK-4	14003	1.300	1.300	24.43	923.6-3	1.923	
(N,2N)		JEF-1	4013			36.99-3 *	50.00-3	138.0-6 *	
		ENDF/B-5	1169			36.98-3 *	50.00-3	138.0-6 *	
		ENDL-82	1003			34.76-3 *	48.50-3	104.2-6 *	
		KEDAK-4	14003			36.97-3 *	50.00-3	138.1-6 *	
2-HE- 3	TOTAL	JEF-1	4023	5.328+3	4.725+3	2.427+3	1.170	2.947	
		ENDF/B-5	1146	5.328+3	4.727+3	2.426+3	1.170	2.944	
		ENDL-82	1004	5.336+3	4.751+3 *	2.442+3	1.162	2.929 *	
		KEDAK-4	20003	5.328+3	4.735+3 *	2.434+3 *	1.169	2.927 *	
	ELASTIC	JEF-1	4023	1.000	999.9-3	22.47	971.9-3	2.113	
		ENDF/B-5	1146	1.000	1.000	22.45	971.9-3	2.114	
		ENDL-82	1004	1.000	1.000 *	22.03	950.0-3	2.085 *	
		KEDAK-4	20003	1.000	1.000 *	22.21	971.9-3	2.111 *	
	(N,P)	JEF-1	4023	5.327+3	4.721+3	2.391+3	122.0-3	829.7-3	
		ENDF/B-5	1146	5.327+3	4.723+3	2.390+3	122.0-3	826.2-3	
		ENDL-82	1004	5.335+3	4.750+3 *	2.420+3	144.0-3	840.4-3 *	
		KEDAK-4	20003	5.327+3	4.734+3 *	2.412+3 *	121.5-3	813.0-3 *	
(N,D)	JEF-1	4023			88.59-3 *	76.10-3	2.623-3 *		
	ENDF/B-5	1146			88.56-3 *	76.10-3	2.624-3 *		
	ENDL-82	1004			84.83-3 *	68.00-3	2.686-3 *		
	KEDAK-4	20003			69.16-3 *	76.07-3	2.685-3 *		
2-HE- 4	TOTAL	JEF-1	4024	759.2-3	759.2-3	22.00	1.059	3.688	
		ENDF/B-5	1270	759.2-3	759.2-3	22.00	1.059	3.689	
		ENDL-82	1005	730.0-3	730.0-3 *	21.77	1.052	3.701 *	
		KEDAK-4	20004	723.8-3	723.8-3 *	21.24	1.060	3.668 *	
	ELASTIC	JEF-1	4024	759.2-3	759.2-3	22.00	1.059	3.688	
		ENDF/B-5	1270	759.2-3	759.2-3	22.00	1.059	3.689	
		ENDL-82	1005	730.0-3	730.0-3 *	21.77	1.052	3.701 *	
		KEDAK-4	20004	723.8-3	723.8-3 *	21.24	1.060	3.668 *	
3-LI- 6	TOTAL	JEF-1	4036	936.6	830.2	442.3	1.449	1.891	
		ENDF/B-5	1303	937.4	830.6	442.1	1.449	1.891	
		ENDL-82	1006	945.5	837.5	445.3	1.414	1.842 *	
		JENDL-2	2031	937.1	830.6	443.2	1.247	1.908	
	ELASTIC	JEF-1	4036	710.5-3	710.5-3	17.72	966.6-3	1.432	
		ENDF/B-5	1303	710.5-3	710.5-3	17.72	966.7-3	1.432	
		ENDL-82	1006	700.0-3	700.0-3 *	17.56	887.5-3	1.385 *	
		JENDL-2	2031	736.0-3	736.2-3	18.06	710.0-3	1.404	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
3-LI- 6	INELAST.	JEF-1	4036			980.1-3 *	372.1-3	136.5-3 *	
		ENDF/B-5	1303			980.1-3 *	372.1-3	136.5-3 *	
		JENDL-2	2031			1.089 *	434.7-3	149.2-3 *	
	(N,2N+A)	JEF-1	4036			72.03-3 *	78.20-3	1.309-3 *	
		JENDL-2	2031			52.08-3 *	69.00-3	176.3-6 *	
	CAPTURE	JEF-1	4036		38.50-3	34.12-3	17.36-3	10.17-6	11.67-6
		ENDF/B-5	1303		38.50-3	34.14-3	17.35-3	10.18-6	11.66-6
		ENDL-82	1006		45.03-3	39.89-3 *	20.43-3	14.59-6	41.73-6 *
		JENDL-2	2031		28.00-3	24.82-3	12.61-3	1.190-6	4.261-6
	(N,P)	JEF-1	4036				27.86-3 *	6.100-3	4.270-3 *
		ENDF/B-5	1303				27.86-3 *	6.100-3	4.271-3 *
		ENDL-82	1006				23.69-3 *	7.500-3	3.015-3 *
		JENDL-2	2031				27.99-3 *	7.200-3	4.185-3 *
	(N,T)	JEF-1	4036		935.9	829.4	423.0	26.00-3	317.1-3
		ENDF/B-5	1303		936.7	829.8	422.9	26.00-3	316.4-3
		ENDL-82	1006		944.7	836.8	426.6	26.20-3	317.6-3 *
	(N,A)	JENDL-2	2031		936.3	829.8	423.4	25.74-3	350.6-3
	3-LI- 7	TOTAL	JEF-1	4037	1.086	1.082	22.62	1.454	1.829
ENDF/B-5			1272	1.086	1.083	22.69	1.454	1.832	
ENDL-82			1007	1.130	1.127 *	23.35	1.450	1.829 *	
JENDL-2			2032	1.094	1.091	22.97	1.470	1.846	
ELASTIC		JEF-1	4037		1.050	1.050	21.49	974.0-3	1.644
		ENDF/B-5	1272		1.050	1.050	21.50	974.0-3	1.645
		ENDL-82	1007		1.100	1.100 *	22.26	1.000	1.646 *
		JENDL-2	2032		1.049	1.049	21.79	999.7-3	1.643
INELAST.		JEF-1	4037				1.128 *	415.0-3	186.8-3 *
		ENDF/B-5	1272				1.127 *	414.7-3	186.8-3 *
		ENDL-82	1007				550.1-3 *	90.00-3	156.9-3 *
		JENDL-2	2032				1.124 *	404.9-3	203.0-3 *
(N,2N)		JEF-1	4037				14.31-3 *	22.00-3	28.38-6 *
		ENDF/B-5	1272				14.31-3 *	22.00-3	28.38-6 *
		ENDL-82	1007				44.47-3 *	50.00-3	66.19-6 *
		JENDL-2	2032				14.31-3 *	22.00-3	28.38-6 *
(N,2N+A)		JEF-1	4037				18.52-3 *	33.00-3	10.11-6 *
		JENDL-2	2032				18.52-3 *	33.00-3	10.09-6 *
CAPTURE		JEF-1	4037		36.00-3	31.75-3	16.54-3	10.00-6	10.43-6
		ENDF/B-5	1272		36.02-3	31.76-3	16.54-3	10.00-6	10.39-6
		ENDL-82	1007		29.90-3	26.81-3 *	17.61-3	10.00-6	10.10-6 *
		JENDL-2	2032		45.40-3	40.24-3	20.44-3	1.930-6	6.907-6
(N,D)		JEF-1	4037				5.738-3 *	10.00-3	5.208-6 *
		ENDF/B-5	1272				5.738-3 *	9.995-3	5.210-6 *
		JENDL-2	2032				5.738-3 *	10.00-3	5.208-6 *
4-BE- 9		TOTAL	JEF-1	4049	6.010	6.008	89.03	1.491	2.891
			ENDF/B-5	1304	6.014	6.011	88.89	1.514	2.842
			ENDL-82	1009	6.010	6.008 *	88.87	1.514	2.844 *
			JENDL-2	2041	6.008	6.007	87.81	1.502	2.802
		ELASTIC	JEF-1	4049		6.000	6.000	87.85	940.0-3
	ENDF/B-5		1304		6.000	6.000	87.70	963.0-3	2.683
	ENDL-82		1009		6.000	6.000 *	87.70	963.0-3	2.684 *
	JENDL-2		2041		6.000	6.000	86.64	961.7-3	2.640
	(N,2N)	JEF-1	4049				1.031 *	522.0-3	121.8-3 *
		ENDF/B-5	1304				1.031 *	522.3-3	121.8-3 *
		ENDL-82	1009				1.031	522.0-3	121.7-3
		JENDL-2	2041				1.028 *	514.0-3	125.4-3 *
	CAPTURE	JEF-1	4049		9.500-3	8.426-3	5.251-3	100.0-6	100.0-6
		ENDF/B-5	1304		9.500-3	8.426-3	5.251-3	100.0-6	100.0-6
		ENDL-82	1009		9.500-3	8.424-3 *	5.251-3	100.0-6	100.0-6 *
		JENDL-2	2041		7.600-3	6.736-3	3.422-3	323.1-9	1.156-6
	(N,P)	JEF-1	4049				386.3-6 *		24.07-9 *
		ENDF/B-5	1304				386.2-6 *		24.03-9 *
		ENDL-82	1009				386.3-6 *		24.07-9 *
		JENDL-2	2041				455.9-6 *		31.94-9 *
	(N,D)	JEF-1	4049				964.7-6 *		21.13-9 *
		ENDF/B-5	1304				964.7-6 *		21.13-9 *
		ENDL-82	1009				964.7-6 *		21.13-9 *
		JENDL-2	2041				927.5-6 *		19.88-9 *
	(N,T)	JEF-1	4049				18.56-3 *	18.00-3	4.853-6 *
		ENDF/B-5	1304				10.67-3 *	18.00-3	3.203-6 *
		ENDL-82	1009				10.67-3 *	18.00-3	3.202-6 *
		JENDL-2	2041				10.81-3 *	15.47-3	2.722-6 *
	(N,A)	JEF-1	4049				123.6-3 *	11.00-3	37.50-3 *
		ENDF/B-5	1304				123.6-3 *	11.00-3	37.50-3 *
ENDL-82		1009				123.6-3 *	11.00-3	37.50-3 *	
JENDL-2		2041				125.0-3 *	10.81-3	36.93-3 *	
5-B - 10	TOTAL	JEF-1	4050	3.839+3	3.403+3	1.763+3	1.450	2.697	
		ENDF/B-5	1305	3.842+3	3.404+3	1.762+3	1.452	2.695	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.
5-B - 10	TOTAL	ENDL-82	1010	3.842+3	3.404+3 *	1.764+3	1.498	2.583 *
		JENDL-2	2051	3.839+3	3.403+3	1.764+3	1.460	2.611
	ELASTIC	JEF-1	4060	2.034	2.034	36.94	952.8-3	2.099
		ENDF/B-5	1305	2.035	2.035	36.95	953.6-3	2.099
		ENDL-82	1010	2.000	2.000 *	36.69	915.0-3	2.098 *
		JENDL-2	2051	2.173	2.173	38.75	952.8-3	2.101
	INELAST.	JEF-1	4060			396.5-3 *	285.5-3	33.65-3 *
		ENDF/B-5	1305			396.5-3 *	285.4-3	33.66-3 *
		ENDL-82	1010			618.0-3 *	335.7-3	72.04-3 *
		JENDL-2	2051			396.5-3 *	285.5-3	33.65-3 *
	(N,2N)	JENDL-2	2051			8.229-3 *	26.44-6	316.4-9 *
	CAPTURE	JEF-1	4060	500.0-3	442.9-3	223.5-3		31.44-6
		ENDF/B-5	1305	500.0-3	443.1-3	223.4-3		31.09-6
		ENDL-82	1010	460.0-3	402.6-3 *	212.4-3	220.6-6	464.6-6 *
		JENDL-2	2051	503.0-3	445.8-3	226.5-3	21.38-6	76.62-6
	(N,P)	JEF-1	4060	566.0-6	501.6-6	64.39-3	32.80-3	8.222-3
		ENDF/B-5	1305	566.0-6	501.8-6	64.38-3	32.80-3	8.225-3
		JENDL-2	2051	566.0-6	501.6-6	64.39-3	32.80-3	8.222-3
	(N,D)	JEF-1	4060			39.68-3 *	29.97-3	1.134-3 *
		ENDF/B-5	1305			39.68-3 *	29.98-3	1.134-3 *
JENDL-2		2051			39.68-3 *	29.97-3	1.134-3 *	
(N,A)	JEF-1	4060	3.837+3	3.400+3	1.723+3	60.22-3	422.3-3	
	ENDF/B-5	1305	3.840+3	3.402+3	1.722+3	60.22-3	419.7-3	
	ENDL-82	1010	3.840+3	3.401+3 *	1.725+3	14.00-3	381.9-3 *	
	JENDL-2	2051	3.836+3	3.400+3	1.724+3	60.22-3	433.7-3	
(N,T+2A)	JEF-1	4060	566.0-6	501.6-6	234.2-3	88.65-3	32.63-3	
	ENDL-82	1010			231.0-3 *	102.0-3	30.34-3 *	
JENDL-2	2051	566.0-6	501.6-6	234.2-3	88.65-3	32.63-3		
5-B - 11	TOTAL	JEF-1	4051	5.041	5.041	75.11	1.320	2.403
		ENDF/B-5	1160	5.045	5.043	75.07	1.320	2.402
		ENDL-82	1011	5.005	5.005 *	74.13	1.330	2.363 *
	ELASTIC	JEF-1	4051	5.036	5.036	74.51	602.2-3	2.390
		ENDF/B-5	1160	5.035	5.036	74.45	602.2-3	2.389
		ENDL-82	1011	5.000	5.000 *	73.43	690.0-3	2.315 *
	INELAST.	JEF-1	4051			555.1-3 *	649.8-3	13.41-3 *
		ENDF/B-5	1160			555.1-3 *	649.8-3	13.42-3 *
		ENDL-82	1011			612.7-3 *	565.0-3	29.68-3 *
	(N,2N)	JEF-1	4051			8.245-3 *	20.00-3	2.012-6 *
		ENDF/B-5	1160			8.245-3 *	20.00-3	2.012-6 *
		ENDL-82	1011			8.238-3 *	20.00-3	2.002-6 *
	CAPTURE	JEF-1	4051	5.000-3	4.432-3	2.531-3	215.0-9	2.905-6
		ENDF/B-5	1160	5.004-3	4.433-3	2.529-3	215.0-9	2.897-6
		ENDL-82	1011	4.990-3	4.857-3 *	45.93-3	46.00-6	7.805-3 *
	(N,P)	JEF-1	4051			1.410-3 *	2.440-3	247.6-9 *
		ENDF/B-5	1160			1.410-3 *	2.440-3	247.8-9 *
		ENDL-82	1011			2.219-3 *	5.000-3	763.9-9 *
	(N,T)	JEF-1	4051			7.184-3 *	15.00-3	2.375-6 *
		ENDF/B-5	1160			7.184-3 *	15.00-3	2.376-6 *
ENDL-82		1011			7.450-3 *	15.00-3	4.533-6 *	
(N,A)	JEF-1	4051			17.80-3 *	30.55-3	36.86-6 *	
	ENDF/B-5	1160			17.80-3 *	30.55-3	36.87-6 *	
	ENDL-82	1011			20.11-3 *	35.00-3	75.66-6 *	
6-C - 0	TOTAL	JEF-1	4060	4.743	4.744	71.07	1.310	2.365
		ENDF/B-5	1306	4.743	4.744	71.10	1.311	2.365
		ENDL-82	1012	5.003	4.992 *	69.96	1.332	2.408 *
	ELASTIC	JEF-1	4060	4.739	4.739	70.48	803.3-3	2.363
		ENDF/B-5	1306	4.739	4.739	70.49	803.3-3	2.363
		ENDL-82	1012	5.000	4.988 *	69.45	810.0-3	2.399 *
	INELAST.	JEF-1	4060			471.6-3 *	425.1-3	10.88-3 *
		ENDF/B-5	1306			471.6-3 *	425.1-3	10.88-3 *
		ENDL-82	1012			273.4-3 *	230.0-3	7.869-3 *
	CAPTURE	JEF-1	4060	3.360-3	2.991-3	1.689-3	115.7-6	9.327-6
		ENDF/B-5	1306	3.363-3	2.993-3	1.689-3	115.7-6	9.332-6
		ENDL-82	1012	3.400-3	3.196-3 *	9.176-3	172.0-6	495.3-6 *
	(N,P)	JEF-1	4060			3.692-3 *		180.2-9 *
		ENDF/B-5	1306			3.692-3 *		180.3-9 *
		ENDL-82	1012			7.221-3 *	1.620-3	460.6-9 *
	(N,D)	JEF-1	4060			11.93-3 *		446.1-9 *
		ENDF/B-5	1306			11.93-3 *		446.4-9 *
		ENDL-82	1012			1.170-3 *		36.61-9 *
	(N,A)	JEF-1	4060			99.75-3 *	81.51-3	1.207-3 *
		ENDF/B-5	1306			99.75-3 *	81.51-3	1.207-3 *
ENDL-82		1012			89.11-3 *	75.00-3	1.132-3 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.
7-N - 14	TOTAL	JEF-1	4074	11.85	11.67	119.9	1.569	1.983
		ENDF/B-5	1275	11.85	11.68	119.8	1.669	1.982
		ENDL-82	1013	12.24	12.01	120.8	1.589	1.988 *
	ELASTIC	JEF-1	4074	9.957	9.957	117.9	884.9-3	1.850
		ENDF/B-5	1275	9.957	9.957	117.9	884.9-3	1.848
		ENDL-82	1013	10.30	10.30	118.9	960.0-3	1.856 *
	INELAST.	JEF-1	4074			384.5-3 *	430.0-3	8.090-3 *
		ENDF/B-5	1275			384.5-3 *	430.0-3	8.094-3 *
		ENDL-82	1013			207.6-3 *	167.8-3	6.501-3 *
	(N,2N)	JEF-1	4074			3.898-3 *	6.530-3	1.023-6 *
		ENDF/B-5	1275			3.898-3 *	6.530-3	1.024-6 *
		ENDL-82	1013			4.253-3 *	6.000-3	1.314-6 *
	CAPTURE	JEF-1	4074	75.00-3	66.45-3	33.76-3	16.50-6	26.13-6
		ENDF/B-5	1275	75.00-3	66.48-3	33.74-3	16.50-6	26.09-6
		ENDL-82	1013	75.00-3	66.88-3 *	34.45-3	10.00-6	15.00-6 *
	(N,P)	JEF-1	4074	1.819	1.612	966.5-3	43.25-3	35.82-3
		ENDF/B-5	1275	1.819	1.613	966.1-3 *	43.25-3	35.83-3 *
		ENDL-82	1013	1.869	1.642 *	986.6-3	42.89-3	35.79-3 *
	(N,D)	JEF-1	4074			32.64-3 *	41.12-3	344.2-6 *
		ENDF/B-5	1275			32.64-3 *	41.11-3	344.3-6 *
		ENDL-82	1013			32.64-3 *	41.12-3	344.2-6 *
	(N,T)	JEF-1	4074			27.41-3 *	29.95-3	877.4-6 *
		ENDF/B-5	1275			27.41-3 *	29.95-3	877.6-6 *
		ENDL-82	1013			27.41-3 *	29.95-3	877.4-6 *
(N,A)	JEF-1	4074			376.5-3 *	101.7-3	88.32-3 *	
	ENDF/B-5	1275			376.5-3 *	101.7-3	88.36-3 *	
	ENDL-82	1013			376.6-3 *	101.7-3	88.32-3 *	
(N,2A)	JEF-1	4074			21.92-3 *	31.53-3	6.231-6 *	
	ENDF/B-5	1275			21.92-3 *	31.53-3	6.235-6 *	
8-O - 16	TOTAL	JEF-1	4086	3.748	3.748	60.85	1.619	2.795
		ENDF/B-5	1276	3.751	3.751	60.88	1.619	2.794
		ENDL-82	1014	3.700	3.700 *	60.91	1.650	2.878 *
		KEDAK-4	80016	4.211	4.161 *	60.14	1.619	2.810 *
	ELASTIC	JEF-1	4086	3.748	3.748	60.27	955.9-3	2.782
		ENDF/B-5	1276	3.748	3.748	60.28	955.9-3	2.782
		ENDL-82	1014	3.700	3.700 *	60.26	960.0-3	2.867 *
		KEDAK-4	80016	4.211	4.161 *	59.76	955.9-3	2.799 *
	INELAST.	JEF-1	4086			396.5-3 *	474.4-3	3.136-3 *
		ENDF/B-5	1276			396.5-3 *	474.4-3	3.138-3 *
		ENDL-82	1014			371.5-3 *	325.0-3	3.779-3 *
		KEDAK-4	80016			232.2-3 *	474.4-3	3.125-3 *
	CAPTURE	JEF-1	4086	178.0-6	157.8-6	80.16-6	7.566-9	27.08-9
		ENDF/B-5	1276	178.0-6	157.8-6	80.11-6	7.632-9	26.95-9
		KEDAK-4	80016	178.0-6	158.3-6 *	80.91-6 *	7.560-9	27.31-9 *
	(N,P)	JEF-1	4086			20.05-3 *	47.12-3	21.20-6 *
		ENDF/B-5	1276			20.05-3 *	47.12-3	21.21-6 *
		ENDL-82	1014			20.09-3 *	40.00-3	21.68-6 *
		KEDAK-4	80016			12.02-3 *	47.12-3	20.47-6 *
	(N,D)	JEF-1	4086			4.976-3 *	15.30-3	3.862-6 *
		ENDF/B-5	1276			4.977-3 *	15.30-3	3.864-6 *
		ENDL-82	1014			8.600-3 *	15.00-3	3.037-6 *
		KEDAK-4	80016			3.191-3 *	15.30-3	3.666-6 *
	(N,A)	JEF-1	4086			153.3-3 *	126.3-3	9.242-3 *
ENDF/B-5		1276			153.3-3 *	126.3-3	9.245-3 *	
ENDL-82		1014			122.6-3 *	80.00-3	7.649-3 *	
KEDAK-4		80016			133.2-3 *	126.3-3	7.696-3 *	
9-F - 19	TOTAL	JEF-1	4099	4.007	4.009	72.33	1.748	3.432
		ENDF/B-5	1309	3.620	3.622	72.72	1.761	3.604
		ENDL-82	1015	4.010	4.008 *	72.33	1.751	3.428 *
		JENDL-2	2091	3.651	3.652	72.53	1.768	3.537
	ELASTIC	JEF-1	4099	3.997	3.997	65.30	826.6-3	2.198
		ENDF/B-5	1309	3.609	3.609	67.25	840.4-3	2.649 *
		ENDL-82	1015	4.000	4.000 *	65.32	829.4-3	2.198 *
		JENDL-2	2091	3.641	3.641	64.97	849.0-3	2.191
	INELAST.	JEF-1	4099			6.735 *	749.1-3	1.216 *
		ENDF/B-5	1309			5.182 *	749.1-3	938.0-3 *
		ENDL-82	1015			6.728 *	749.3-3	1.215 *
		JENDL-2	2091			6.957 *	496.4-3	1.327 *
	(N,2N)	JEF-1	4099			37.83-3 *	49.00-3	8.977-6 *
		ENDF/B-5	1309			37.83-3 *	49.00-3	8.981-6 *
		ENDL-82	1015			37.83-3 *	49.00-3	8.977-6 *
		JENDL-2	2091			29.94-3 *	42.94-3	8.614-6 *
	(N,N+A)	JEF-1	4099			40.32-3 *	50.00-3	198.7-6 *
		ENDL-82	1015			40.33-3 *	49.94-3	200.0-6 *
		JENDL-2	2091			192.7-3 *	216.3-3	2.009-3 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
9-F - 19	(N,N+P)	JEF-1	4099			7.894-3 *	11.30-3	5.015-6 *	
		ENDL-82	1015			7.919-3 *	11.30-3	5.189-6 *	
		JENDL-2	2091			45.18-3 *	72.80-3	37.46-6 *	
	CAPTURE	JEF-1	4099	9.500-3	8.419-3	21.38-3	10.00-6	202.0-6	
		ENDF/B-5	1309	9.507-3	8.423-3	19.08-3	10.00-6	198.4-6	
		ENDL-82	1015	9.533-3	8.477-3 *	21.42-3	10.13-6	202.4-6 *	
		JENDL-2	2091	9.600-3	8.519-3	19.59-3	25.66-6	213.5-6	
	(N,P)	JEF-1	4099			33.11-3 *	17.00-3	1.136-3 *	
		ENDF/B-5	1309			33.11-3 *	17.00-3	1.137-3 *	
		ENDL-82	1015			33.11-3 *	17.00-3	1.136-3 *	
		JENDL-2	2091			31.94-3 *	14.66-3	1.163-3 *	
	(N,D)	JEF-1	4099			9.616-3 *	12.00-3	51.75-6 *	
		ENDF/B-5	1309			9.611-3 *	12.00-3	51.77-6 *	
		ENDL-82	1015			9.661-3 *	12.00-3	54.17-6 *	
		JENDL-2	2091			37.20-3 *	39.50-3	317.9-6 *	
	(N,T)	JEF-1	4099			5.191-3 *	7.622-3	10.24-6 *	
		ENDF/B-5	1309			5.189-3 *	7.625-3	10.24-6 *	
		ENDL-82	1015			5.239-3 *	7.625-3	10.92-6 *	
		JENDL-2	2091			10.87-3 *	15.00-3	28.55-6 *	
	(N,A)	JEF-1	4099			139.3-3 *	25.00-3	15.84-3 *	
		ENDF/B-5	1309			138.2-3 *	25.00-3	15.39-3 *	
		ENDL-82	1015			131.2-3 *	25.00-3	13.60-3 *	
		JENDL-2	2091			127.3-3 *	21.34-3	14.65-3 *	
	11-NA- 22	TOTAL	JEF-1	4112	29.08+3	25.91+3	15.79+3	1.663	2.925
ELASTIC		JEF-1	4112	72.60	72.60	975.3	727.1-3	2.024	
INELAST.		JEF-1	4112			863.4-3 *	62.22-3	219.0-3 *	
(N,2N)		JEF-1	4112			15.42-3 *	26.96-3	5.149-6 *	
(N,N+A)		JEF-1	4112			30.11-3 *	18.53-3	3.388-6 *	
(N,N+P)		JEF-1	4112			254.9-3 *	414.8-3	583.4-6 *	
CAPTURE		JEF-1	4112	252.5	224.7	128.8	210.0-6	772.6-6	
(N,P)		JEF-1	4112	28.72+3	25.59+3	14.67+3	74.32-3	444.3-3	
(N,D)		JEF-1	4112			23.29-3 *	19.53-3	773.5-6 *	
(N,A)		JEF-1	4112	28.71	25.58	15.56	27.67-3	233.7-3	
(N,2A)		JEF-1	4112			174.9-3 *	239.7-3	1.298-3 *	
11-NA- 23	TOTAL	JEF-1	4113	3.700	3.673	139.1	1.690	3.133	
		ENDF/B-5	1311	3.847	3.789	134.1	1.716	3.199	
		ENDL-82	1016	3.930	3.930 *	139.0	1.655	3.099 *	
		JENDL-2	2111	3.700	3.673	139.1	1.690	3.133	
		KEDAK-4	110023	3.853	3.779 *	138.9	1.585	3.229 *	
	ELASTIC	JEF-1	4113	3.170	3.189	136.2	918.1-3	2.581	
		ENDF/B-5	1311	3.319	3.312	131.3	745.7-3	2.581	
		ENDL-82	1016	3.394	3.455 *	136.1	671.0-3	2.599 *	
		JENDL-2	2111	3.170	3.189	136.2	918.1-3	2.581	
		KEDAK-4	110023	3.317	3.306 *	136.3	695.4-3	2.716 *	
	INELAST.	JEF-1	4113			2.380 *	566.0-3	549.4-3 *	
		ENDF/B-5	1311			2.364 *	749.0-3	516.2-3 *	
		ENDL-82	1016			2.281 *	692.0-3	497.9-3 *	
		JENDL-2	2111			2.379 *	566.0-3	549.4-3 *	
		KEDAK-4	110023			2.156 *	685.0-3	511.4-3 *	
	(N,2N)	JEF-1	4113			13.83-3 *	18.00-3	2.144-6 *	
		ENDF/B-5	1311			43.42-3 *	20.00-3	4.092-6 *	
		ENDL-82	1016			34.07-3 *	16.00-3	3.021-6 *	
		JENDL-2	2111			13.83-3 *	18.00-3	2.144-6 *	
		KEDAK-4	110023			4.253-3 *	25.80-3	1.949-6 *	
	CAPTURE	JEF-1	4113	530.4-3	469.4-3	329.2-3	213.7-6	274.9-6	
		ENDF/B-5	1311	528.3-3	468.2-3	316.5-3	212.4-6	270.4-6	
		ENDL-82	1016	536.4-3	474.8-3 *	328.0-3	240.0-6	325.0-6 *	
		JENDL-2	2111	530.0-3	469.1-3	329.3-3	213.9-6	275.0-6	
		KEDAK-4	110023	536.0-3	474.8-3 *	315.7-3 *	238.5-6	274.8-6 *	
	(N,P)	JEF-1	4113			57.96-3 *	44.70-3	1.205-3 *	
		ENDF/B-5	1311			69.67-3 *	60.20-3	1.488-3 *	
		ENDL-82	1016			64.22-3 *	45.20-3	1.530-3 *	
		JENDL-2	2111			57.95-3 *	44.70-3	1.205-3 *	
		KEDAK-4	110023			52.26-3 *	44.97-3	1.469-3 *	
	(N,A)	JEF-1	4113			99.72-3 *	143.0-3	564.7-6 *	
		ENDF/B-5	1311			111.9-3 *	140.0-3	647.7-6 *	
		ENDL-82	1016			98.41-3 *	140.0-3	631.9-6 *	
		JENDL-2	2111			99.72-3 *	143.0-3	564.7-6 *	
		KEDAK-4	110023			66.79-3 *	159.9-3	539.1-6 *	
	12-MG- 0	TOTAL	JEF-1	4120	3.400	3.403	67.14	1.780	3.274
		ENDF/B-5	1312	3.400	3.403	70.57	1.785	3.416	
		ENDL-82	1017	3.400	3.387 *	67.20	1.820	3.318 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.
12-MG-	0 ELASTIC	JEF-1	4120	3.337	3.340	65.14	795.7-3	2.964
		ENDF/B-5	1312	3.337	3.333	68.63	785.7-3	3.134
		ENDL-82	1017	3.337	3.331 *	65.27	900.0-3	2.991 *
	INELAST.	JEF-1	4120			1.643 *	587.6-3	304.3-3 *
		ENDF/B-5	1312			1.573 *	585.7-3	276.3-3 *
		ENDL-82	1017			1.696 *	660.0-3	324.1-3 *
	(N,2N)	JEF-1	4120			28.09-3 *	35.60-3	32.95-6 *
		ENDF/B-5	1312			28.02-3 *	35.32-3	32.94-6 *
		ENDL-82	1017			34.28-3 *	60.00-3	69.29-6 *
	(N,N+A)	JEF-1	4120			2.629-3 *	1.100-3	238.5-9 *
	CAPTURE	JEF-1	4120			16.69-3 *	11.72-3	1.640-6 *
		ENDF/B-5	1312	63.00-3	55.87-3	33.46-3	300.0-6	676.8-6
		ENDL-82	1017	63.03-3	55.89-3	33.46-3	300.0-6	680.2-6
	(N,P)	JEF-1	4120			63.02-3	40.47-6	454.1-6 *
		ENDF/B-5	1312			125.9-3 *	171.5-3	1.263-3 *
		ENDL-82	1017			125.9-3 *	170.0-3	1.263-3 *
	(N,A)	JEF-1	4120			164.4-3 *	200.0-3	1.746-3 *
		ENDF/B-5	1312			144.6-3	176.5-3	3.066-3
	ENDF/B-5	1312			144.4-3	175.3-3	3.073-3	
13-AL-	27 TOTAL	JEF-1	4137	1.580	1.582	40.78	1.744	3.185
		ENDF/B-5	1313	1.580	1.582	40.78	1.744	3.185
		ENDL-82	1018	1.581	1.554 *	40.75	1.744	3.185 *
		JENDL-2	2131	1.730	1.711	42.37	1.750	3.182
		KEDAK-4	130027	1.529	1.616 *	41.33	1.719	3.198 *
	ELASTIC	JEF-1	4137	1.348	1.348	38.60	651.4-3	2.897
		ENDF/B-5	1313	1.348	1.348	38.61	651.4-3	2.897
		ENDL-82	1018	1.348	1.348 *	38.60	651.4-3	2.897 *
		JENDL-2	2131	1.500	1.500	40.33	925.6-3	2.875
		KEDAK-4	130027	1.300	1.413 *	39.43	682.2-3	2.890 *
	INELAST.	JEF-1	4137			1.725 *	839.4-3	283.0-3 *
		ENDF/B-5	1313			1.724 *	840.1-3	283.1-3 *
		ENDL-82	1018			1.722 *	839.2-3	283.0-3 *
		JENDL-2	2131			1.620 *	615.0-3	302.1-3 *
		KEDAK-4	130027			1.623 *	838.3-3	302.6-3 *
	(N,2N)	JEF-1	4137			81.32-3 *	24.00-3	6.677-6 *
		ENDF/B-5	1313			81.31-3 *	24.00-3	6.680-6 *
		ENDL-82	1018			81.28-3 *	24.00-3	6.677-6 *
JENDL-2		2131			75.21-3 *	10.50-3	4.859-6 *	
KEDAK-4		130027			311.3-6 *	1.000-3	118.4-9 *	
CAPTURE	JEF-1	4137	232.0-3	205.8-3	132.6-3	499.6-6	298.8-6	
	ENDF/B-5	1313	232.0-3	205.9-3	132.6-3	499.6-6	296.3-6	
	ENDL-82	1018	233.1-3	206.1-3 *	132.6-3	198.4-6	296.2-6 *	
	JENDL-2	2131	230.0-3	203.8-3	147.3-3	427.3-6	281.8-6	
	KEDAK-4	130027	229.1-3	203.2-3 *	129.3-3 *	200.0-6	613.2-6 *	
(N,P)	JEF-1	4137			103.3-3 *	77.70-3	4.260-3 *	
	ENDF/B-5	1313			103.3-3 *	77.77-3	4.261-3 *	
	ENDL-82	1018			103.3-3 *	77.72-3	4.257-3 *	
	JENDL-2	2131			92.62-3 *	77.50-3	3.775-3 *	
	KEDAK-4	130027			85.04-3 *	70.00-3	4.043-3 *	
(N,D)	JEF-1	4137			14.47-3 *	26.30-3	12.22-6 *	
	ENDF/B-5	1313			14.47-3 *	26.30-3	12.23-6 *	
	ENDL-82	1018			14.46-3 *	26.30-3	12.22-6 *	
(N,T)	JEF-1	4137			2.253-3 *	9.313-6	94.32-9 *	
	ENDF/B-5	1313			2.253-3 *	9.313-6	94.38-9 *	
	ENDL-82	1018			2.253-3 *	9.313-6	94.33-9 *	
(N,A)	JEF-1	4137			88.64-3 *	124.7-3	718.6-6 *	
	ENDF/B-5	1313			88.64-3 *	124.7-3	718.9-6 *	
	ENDL-82	1018			88.87-3 *	124.7-3	776.8-6 *	
	JENDL-2	2131			87.08-3 *	121.0-3	732.2-6 *	
	KEDAK-4	130027			61.97-3 *	127.0-3	618.1-6 *	
14-SI-	0 TOTAL	JEF-1	4140	2.310	2.301	41.14	1.814	3.053
		ENDF/B-5	1314	2.202	2.187	41.86	1.814	3.080
		ENDL-82	1019	2.309	2.292 *	41.12	1.822	3.032 *
		JENDL-2	2140	2.356	2.347	41.08	1.800	3.029
	ELASTIC	JEF-1	4140	2.150	2.150	39.13	730.7-3	2.823
		ENDF/B-5	1314	2.042	2.042	39.83	734.5-3	2.855
		ENDL-82	1019	2.150	2.150 *	39.05	801.0-3	2.806 *
		JENDL-2	2140	2.200	2.200	38.83	622.9-3	2.786
	INELAST.	JEF-1	4140			1.317 *	527.6-3	219.1-3 *
		ENDF/B-5	1314			1.317 *	524.2-3	213.2-3 *
		ENDL-82	1019			1.362 *	460.0-3	213.9-3 *
		JENDL-2	2140			1.470 *	752.9-3	228.5-3 *
	(N,2N)	JEF-1	4140			28.74-3 *	46.63-3	28.82-6 *
		ENDF/B-5	1314			28.74-3 *	46.63-3	28.84-6 *
		ENDL-82	1019			7.207-3 *	7.917-3	3.890-6 *
		JENDL-2	2140			4.637-3 *	8.026-3	2.652-6 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.
14-SI- 0	(N,N+A)	JEF-1	4140			40.74-3 *	6.774-3	2.665-6 *
		JEF-1	4140			105.5-3 *	78.22-3	11.90-6 *
		ENDL-82	1019			13.32-3 *	24.80-3	4.307-6 *
	CAPTURE	JEF-1	4140	160.0-3	142.2-3	82.70-3	500.0-6	678.9-6
		ENDF/B-5	1314	160.0-3	142.3-3	90.22-3	500.0-6	1.070-3
		ENDL-82	1019	159.3-3	142.3-3 *	139.3-3	420.0-6	779.7-6 *
		JENDL-2	2140	156.0-3	138.3-3	78.93-3	559.1-6	524.5-6
	(N,P)	JEF-1	4140			264.8-3 *	233.3-3	7.073-3 *
		ENDF/B-5	1314			264.8-3 *	233.3-3	7.075-3 *
		ENDL-82	1019			283.3-3 *	247.5-3	7.177-3 *
		JENDL-2	2140			363.6-3 *	255.5-3	9.628-3 *
	(N,D)	JEF-1	4140			6.958-3 *	18.88-3	5.487-6 *
		ENDF/B-5	1314			6.958-3 *	18.88-3	5.489-6 *
		ENDL-82	1019			6.972-3 *	19.00-3	5.492-6 *
	(N,A)	JEF-1	4140			163.7-3 *	171.1-3	3.110-3 *
		ENDF/B-5	1314			163.7-3 *	171.1-3	3.110-3 *
		ENDL-82	1019			250.2-3 *	261.3-3	3.557-3 *
JENDL-2		2140			233.4-3 *	160.1-3	4.457-3 *	
17-CL- 0	TOTAL	JEF-1	4170	49.71	46.37	120.6	2.100	2.656
		ENDF/B-5	1149	49.72	46.39	120.6	2.101	2.655
		ENDL-82	1022	46.86	44.49	121.5	2.104	2.661 *
		KEDAK-4	170000	47.60	40.06	133.6	1.979	2.630 *
	ELASTIC	JEF-1	4170	16.50	16.46	104.5	1.034	2.355
		ENDF/B-5	1149	16.50	16.47	104.4	1.034	2.355
		ENDL-82	1022	16.00	16.00	105.3	1.039	2.366 *
		KEDAK-4	170000	13.69	15.39	107.6	979.3-3	2.207 *
	INELAST.	JEF-1	4170			1.673 *	820.0-3	259.2-3 *
		ENDF/B-5	1149			1.673 *	820.0-3	259.2-3 *
		ENDL-82	1022			1.684 *	820.0-3	264.5-3 *
		KEDAK-4	170000			1.783 *	854.0-3	358.8-3 *
	(N,2N)	JEF-1	4170			13.24-3 *	22.00-3	2.055-6 *
		ENDF/B-5	1149			13.22-3 *	22.00-3	2.042-6 *
		ENDL-82	1022			13.52-3 *	22.00-3	2.297-6 *
		KEDAK-4	170000			839.7-6 *	5.000-3	538.0-9 *
	(N,N+A)	JEF-1	4170			19.52-3 *	28.50-3	32.82-6 *
		ENDL-82	1022			19.54-3 *	28.15-3	33.67-6 *
	(N,N+P)	JEF-1	4170			6.144-3 *	7.700-3	14.95-6 *
		ENDL-82	1022			6.151-3 *	7.700-3	15.19-6 *
	CAPTURE	JEF-1	4170	32.85	29.49	13.83	10.00-6	116.1-6
		ENDF/B-5	1149	32.85	29.51	13.82	10.00-6	109.8-6
		ENDL-82	1022	30.73	28.37	13.99	10.00-6	116.2-6 *
		KEDAK-4	170000	33.85	24.56	22.57		336.8-6 *
	(N,P)	JEF-1	4170	355.0-3	314.6-3	416.0-3	98.00-3	27.06-3
ENDF/B-5		1149	355.0-3	314.8-3	415.9-3	98.08-3	27.07-3	
ENDL-82		1022	133.9-3	116.0-3 *	355.4-3	98.00-3	27.06-3 *	
KEDAK-4		170000	143.9-3	105.2-3 *	1.478 *	34.50-3	47.73-3 *	
(N,A)	JEF-1	4170			159.6-3	89.50-3	13.55-3	
	ENDF/B-5	1149			159.6-3	89.50-3	13.55-3	
	ENDL-82	1022			159.6-3 *	89.50-3	13.55-3 *	
	KEDAK-4	170000			185.7-3 *	107.0-3	15.29-3 *	
18-AR- 36	TOTAL	JEF-1	4186	78.61	78.12	681.6	1.888	2.877
	ELASTIC	JEF-1	4186	73.56	73.56	677.0	788.3-3	2.524
	INELAST.	JEF-1	4186			507.9-3 *	69.48-3	105.7-3 *
	(N,2N)	JEF-1	4186			922.9-6 *		28.61-9 *
	(N,N+A)	JEF-1	4186			69.69-3 *	104.5-3	21.91-6 *
	(N,N+P)	JEF-1	4186			183.8-3 *	303.6-3	88.33-6 *
	CAPTURE	JEF-1	4186	5.044	4.557	2.282	438.0-6	3.419-3
	(N,P)	JEF-1	4186			969.7-3 *	361.9-3	152.1-3 *
	(N,D)	JEF-1	4186			26.43-3 *	34.16-3	169.9-6 *
	(N,A)	JEF-1	4186			507.5-3 *	155.8-3	87.63-3 *
	(N,2A)	JEF-1	4186			8.906-3 *	1.740-3	648.7-9 *
18-AR- 38	TOTAL	JEF-1	4188	9.623	9.566	91.86	1.944	2.775
	ELASTIC	JEF-1	4188	8.823	8.823	89.51	832.1-3	2.571
	INELAST.	JEF-1	4188			1.427 *	298.3-3	195.0-3 *
	(N,2N)	JEF-1	4188			167.7-3 *	233.9-3	34.57-6 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV.	FISS. AVG.
18-AR- 38	(N,N+A)	JEF-1	4188			171.5-3 *	360.3-3	82.61-6 *
	(N,N+P)	JEF-1	4188			58.00-3 *	99.39-3	18.98-6 *
	CAPTURE	JEF-1	4188	799.3-3	742.7-3	357.5-3	136.3-6	794.3-6
	(N,P)	JEF-1	4188			75.81-3 *	83.41-3	1.228-3 *
	(N,D)	JEF-1	4188			7.675-3 *	11.47-3	16.02-6 *
	(N,A)	JEF-1	4188			80.02-3 *	24.92-3	6.182-3 *
	(N,2A)	JEF-1	4188			41.01-6 *	12.71-6	10.77-9 *
18-AR- 40	TOTAL	JEF-1	4180	957.5-3	884.1-3	19.35	2.016	2.739
	ELASTIC	JEF-1	4180	279.8-3	279.8-3	16.49	880.8-3	2.337
	INELAST.	JEF-1	4180			2.052 *	344.5-3	400.3-3 *
	(N,2N)	JEF-1	4180			429.3-3 *	748.2-3	261.2-6 *
	(N,3N)	JEF-1	4180			7.844-3 *		90.41-9 *
	(N,N+A)	JEF-1	4180			16.64-3 *	14.20-3	4.770-6 *
	(N,N+P)	JEF-1	4180			7.049-3 *	69.70-6	232.7-9 *
	CAPTURE	JEF-1	4180	677.8-3	604.3-3	322.9-3	227.0-6	897.5-6
	(N,P)	JEF-1	4180			7.436-3 *	14.86-3	10.44-6 *
	(N,D)	JEF-1	4180			895.2-6 *	1.320-3	468.3-9 *
	(N,A)	JEF-1	4180			10.83-3 *	11.72-3	95.79-6 *
	19-K - 0	TOTAL	JEF-1	4190	4.356	4.099	41.00	2.046
		ENDF/B-5	1150			40.97	2.047	2.768 *
		ENDL-82	1024	3.970	3.728 *	43.30	2.046	2.777 *
ELASTIC		JEF-1	4190	2.200	2.176	37.74	964.0-3	2.556
		ENDF/B-5	1150	2.200	2.177	37.71	964.9-3	2.556
		ENDL-82	1024	1.900	1.900 *	40.35	964.0-3	2.565 *
INELAST.		JEF-1	4190			998.6-3 *	399.3-3	107.0-3 *
		ENDF/B-5	1150			998.6-3 *	399.3-3	107.0-3 *
		ENDL-82	1024			994.3-3 *	399.3-3	106.2-3 *
(N,2N)		JEF-1	4190			7.403-3 *	2.600-3	545.2-9 *
		ENDF/B-5	1150			7.403-3 *	2.600-3	545.6-9 *
		ENDL-82	1024			7.403-3 *	2.600-3	545.2-9 *
(N,N+A)		JEF-1	4190			20.36-3 *	27.30-3	32.86-6 *
		ENDL-82	1024			20.34-3 *	27.30-3	32.81-6 *
(N,N+P)		JEF-1	4190			114.9-3 *	177.0-3	554.1-6 *
		ENDL-82	1024			114.9-3 *	177.0-3	554.0-6 *
CAPTURE		JEF-1	4190	2.100	1.861	1.212	35.71-6	672.2-6
		ENDF/B-5	1150	2.100	1.862	1.211	35.73-6	648.2-6
		ENDL-82	1024	2.070	1.828 *	948.9-3	71.49-6	634.1-6 *
(N,P)		JEF-1	4190	51.00-3	45.20-3	665.5-3	364.0-3	81.74-3
	ENDF/B-5	1150	51.00-3	45.22-3	665.3-3	364.0-3	81.74-3	
	ENDL-82	1024			642.6-3 *	364.0-3	81.81-3 *	
(N,A)	JEF-1	4190	4.600-3	4.077-3	227.8-3	111.8-3	22.36-3	
	ENDF/B-5	1150	4.600-3	4.079-3	227.7-3	111.8-3	22.35-3	
	ENDL-82	1024			225.7-3 *	111.8-3	22.35-3 *	
20-CA- 0	TOTAL	JEF-1	4200	3.420	3.382	44.26	2.149	2.818
		ENDF/B-5	1320	3.423	3.406	46.66	2.150	2.815
		ENDL-82	1025	3.000	2.952 *	45.44	2.194	3.132 *
		JENDL-2	2200	3.396	3.357	47.78	2.268	2.907
	ELASTIC	JEF-1	4200	2.988	2.988	41.79	875.8-3	2.614
		ENDF/B-5	1320	2.990	2.990	44.11	804.2-3	2.610
		ENDL-82	1025	2.570	2.570 *	43.03	936.0-3	2.927 *
		JENDL-2	2200	2.963	2.963	45.39	1.016	2.714
	INELAST.	JEF-1	4200			589.6-3 *	243.4-3	47.30-3 *
		ENDF/B-5	1320			589.6-3 *	243.4-3	47.31-3 *
		ENDL-82	1025			809.8-3 *	380.0-3	67.67-3 *
		JENDL-2	2200			673.9-3 *	265.9-3	59.33-3 *
	(N,2N)	JEF-1	4200			4.958-3 *	1.700-3	554.7-9 *
		ENDF/B-5	1320			5.013-3 *	1.700-3	806.1-9 *
		ENDL-82	1025			5.015-3 *	1.700-3	808.8-9 *
		JENDL-2	2200			11.59-3 *	11.61-3	3.096-6 *
	(N,N+A)	JEF-1	4200			83.20-3 *	81.00-3	15.05-6 *
		ENDL-82	1025			168.6-3 *	246.2-3	191.2-6 *
		JENDL-2	2200			79.54-3 *	79.49-3	14.93-6 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.
20-CA- 0	(N,N+P)	JEF-1	4200			297.7-3 *	658.0-3	187.7-6 *
		ENDL-82	1025			147.0-3 *	210.2-3	140.1-6 *
		JENDL-2	2200			288.0-3 *	542.9-3	183.1-6 *
	CAPTURE	JEF-1	4200	430.0-3	381.1-3	223.1-3	13.42-6	354.8-6
		ENDF/B-5	1320	430.0-3	381.3-3	221.5-3	514.3-6	575.4-6
		ENDL-82	1025	430.0-3	382.3-3 *	227.7-3	14.62-6	453.2-6 *
		JENDL-2	2200	430.7-3	383.0-3	226.0-3	21.06-6	2.131-3
	(N,P)	JEF-1	4200			839.1-3 *	215.0-3	110.9-3 *
		ENDF/B-5	1320			839.1-3 *	215.0-3	110.9-3 *
		ENDL-82	1025			754.0-3 *	303.0-3	95.43-3 *
		JENDL-2	2200			704.8-3 *	204.4-3	87.34-3 *
	(N,D)	JEF-1	4200			12.78-3 *	18.00-3	33.82-6 *
		ENDF/B-5	1320			12.78-3 *	18.00-3	33.82-6 *
	(N,T)	JEF-1	4200			2.772-3 *	4.266-6	98.09-9 *
		ENDF/B-5	1320			2.771-3 *	4.266-6	98.11-9 *
	(N,HE-3)	JEF-1	4200			3.638-3 *	7.300-3	1.762-6 *
		ENDF/B-5	1320			3.636-3 *	7.300-3	1.762-6 *
	(N,A)	JEF-1	4200	2.500-3	2.241-3	389.7-3	140.0-3	46.08-3
		ENDF/B-5	1320	2.500-3	2.241-3	412.8-3	183.0-3	46.11-3
		ENDL-82	1025			293.7-3 *	117.0-3	41.05-3 *
JENDL-2		2200	2.424-3	2.172-3	348.7-3	138.5-3	43.96-3	
(N,2A)	JEF-1	4200			1.126-3 *	7.000-6	77.35-9 *	
	ENDF/B-5	1320			7.479-3 *	3.300-3	764.3-9 *	
(N,2P)	JEF-1	4200			15.02-3 *	9.000-3	1.571-6 *	
	JENDL-2	2200			14.11-3 *	9.694-3	1.372-6 *	
(N,P+A)	JEF-1	4200			4.244-3 *	120.0-6	236.1-9 *	
22-TI- 0	TOTAL	JEF-1	4220	10.53	9.820	153.8	2.350	3.347
		ENDF/B-5	1322	10.54	9.824	153.8	2.352	3.337
		ENDL-82	1026	10.50	9.807 *	153.8	2.429	3.313 *
	ELASTIC	JEF-1	4220	4.417	4.393	148.1	1.159	2.721
		ENDF/B-5	1322	4.417	4.393	148.1	1.160	2.712
		ENDL-82	1026	4.400	4.400 *	147.6	1.010	2.737 *
	INELAST.	JEF-1	4220			2.804 *	693.0-3	619.7-3 *
		ENDF/B-5	1322			2.804 *	693.0-3	619.8-3 *
		ENDL-82	1026			3.047 *	800.0-3	571.9-3 *
	(N,2N)	JEF-1	4220			208.0-3 *	335.0-3	76.83-6 *
		ENDF/B-5	1322			208.0-3 *	335.0-3	76.87-6 *
		ENDL-82	1026			233.8-3 *	500.0-3	67.71-6 *
	(N,3N)	JEF-1	4220			1.131-6 *		
		ENDF/B-5	1322			1.131-6 *		
	(N,N+A)	JEF-1	4220			4.155-3 *	1.316-3	821.4-9 *
	(N,N+P)	JEF-1	4220			46.12-3 *	52.70-3	10.27-6 *
	CAPTURE	JEF-1	4220	6.113	6.416	2.446	775.6-6	2.346-3
		ENDF/B-5	1322	6.113	6.418	2.446	775.6-6	2.334-3
		ENDL-82	1026	6.105	6.407 *	2.874	736.8-6	3.120-3 *
	(N,P)	JEF-1	4220			71.60-3	79.24-3	2.792-3
ENDF/B-5		1322			71.60-3	79.24-3	2.793-3	
ENDL-82		1026			39.67-3 *	63.33-3	236.5-6 *	
(N,D)	JEF-1	4220			5.373-3 *	1.664-3	562.5-9 *	
	ENDF/B-5	1322			5.373-3 *	1.664-3	563.0-9 *	
(N,T)	JEF-1	4220			505.1-6 *	7.764-6	13.77-9 *	
	ENDF/B-5	1322			505.1-6 *	7.764-6	13.79-9 *	
(N,HE-3)	JEF-1	4220			90.99-6 *	450.4-9	1.810-9 *	
	ENDF/B-5	1322			90.99-6 *	450.4-9	1.812-9 *	
(N,A)	JEF-1	4220			28.48-3	26.88-3	596.8-6	
	ENDF/B-5	1322			28.48-3	26.88-3	597.2-6	
	ENDL-82	1026			25.74-3 *	45.00-3	146.6-6 *	
(N,2P)	JEF-1	4220			159.1-6 *	19.85-6	9.709-9 *	
(N,P+A)	JEF-1	4220			922.0-9 *			
23-V - 0	TOTAL	JEF-1	4230	10.06	9.500	247.8	2.320	3.685
		ENDF/B-5	1323	10.06	9.505	249.4	2.676	3.817
	ELASTIC	JEF-1	4230	5.000	4.998	241.4	1.005	2.916
		ENDF/B-5	1323	5.000	5.000	243.4	1.421	3.124
	INELAST.	JEF-1	4230			3.359 *	563.3-3	764.5-3 *
		ENDF/B-5	1323			3.111 *	674.5-3	690.4-3 *
	(N,2N)	JEF-1	4230			364.5-3 *	635.0-3	110.4-6 *
		ENDF/B-5	1323			255.9-3 *	460.0-3	82.36-6 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
23-V - 0	(N,N+A)	JEF-1	4230			911.3-6 *	189.0-6	71.40-9 *	
	(N,N+P)	JEF-1	4230			17.80-3 *	17.90-3	16.38-6 *	
	CAPTURE	JEF-1	4230	5.060	4.484	2.538	171.4-6	1.615-3	
		ENDF/B-5	1323	5.060	4.487	2.540	512.0-6	1.778-3	
	(N,P)	JEF-1	4230			36.81-3 *	36.10-3	945.5-6 *	
		ENDF/B-5	1323			27.63-3	36.70-3	430.6-6	
	(N,D)	JEF-1	4230			20.19-3 *	30.20-3	48.52-6 *	
		ENDF/B-5	1323			8.143-3 *	7.260-3	5.033-6 *	
(N,T)	JEF-1	4230			9.628-3 *	12.30-3	1.529-6 *		
	ENDF/B-5	1323			2.571-3 *	657.5-6	228.4-9 *		
(N,A)	JEF-1	4230			12.96-3 *	19.40-3	32.11-6 *		
	ENDF/B-5	1323			12.11-3	16.48-3	22.28-6		
24-CR- 0	TOTAL	JEF-1	4240	6.501	6.156	87.06	2.423	3.471	
		ENDF/B-5	1324	7.442	7.109	100.5	2.425	3.507	
		ENDL-82	1028	7.200	6.854 *	87.27	2.393	3.369 *	
		JENDL-2	2240	6.900	6.565	96.13	2.380	3.333	
		KEDAK-4	240000	6.501	6.153 *	86.11	2.369	3.376 *	
	ELASTIC	JEF-1	4240	3.385	3.385	82.33	1.112	2.924	
		ENDF/B-5	1324	4.342	4.342	95.81	1.112	2.982	
		ENDL-82	1028	4.100	4.100 *	82.97	1.266	2.847 *	
		JENDL-2	2240	3.830	3.830	91.80	1.206	2.888	
		KEDAK-4	240000	3.385	3.385 *	81.83	1.067	2.847 *	
		INELAST.	JEF-1	4240			2.697 *	807.5-3	540.8-3 *
	ENDF/B-5		1324			2.587 *	727.7-3	513.2-3 *	
	ENDL-82		1028			2.489 *	690.0-3	518.6-3 *	
	JENDL-2		2240			2.317 *	696.0-3	440.3-3 *	
	KEDAK-4		240000			2.425 *	832.9-3	524.1-3 *	
	(N,2N)		JEF-1	4240			249.6-3 *	339.7-3	206.6-6 *
		ENDF/B-5	1324			251.1-3 *	349.1-3	207.2-6 *	
		ENDL-82	1028			229.7-3 *	320.0-3	128.8-6 *	
		JENDL-2	2240			213.0-3 *	324.5-3	101.1-6 *	
		KEDAK-4	240000			65.10-3 *	299.9-3	153.4-6 *	
		(N,3N)	ENDF/B-5	1324			28.13-6 *		
	(N,N+A)	JEF-1	4240			7.610-3 *	983.3-6	541.7-9 *	
	(N,N+P)	JEF-1	4240			34.48-3 *	23.48-3	9.268-6 *	
		JENDL-2	2240			75.17-3 *	13.87-3	5.769-6 *	
	CAPTURE	JEF-1	4240	3.116	2.771	1.623	884.0-6	4.358-3	
		ENDF/B-5	1324	3.100	2.748	1.665	884.0-6	7.674-3	
		ENDL-82	1028	3.100	2.754 *	1.499	1.000-3	2.682-3 *	
		JENDL-2	2240	3.070	2.730	1.600	97.69-6	3.140-3	
		KEDAK-4	240000	3.116	2.757 *	1.618 *	898.0-6	2.609-3 *	
		(N,P)	JEF-1	4240			76.52-3 *	82.27-3	1.625-3 *
	ENDF/B-5		1324			125.6-3 *	134.3-3	4.211-3 *	
	ENDL-82		1028			83.26-3 *	116.7-3	560.5-6 *	
	JENDL-2		2240			82.86-3 *	106.3-3	978.1-6 *	
	KEDAK-4		240000			77.04-3 *	115.2-3	2.313-3 *	
	(N,D)		JEF-1	4240			9.665-3 *	14.29-3	3.635-6 *
		ENDF/B-5	1324			193.4-6 *	224.6-6	83.30-9 *	
	(N,T)	JEF-1	4240			2.742-3 *	861.2-6	137.1-9 *	
		ENDF/B-5	1324			2.742-3 *	861.2-6	137.1-9 *	
	(N,HE-3)	JEF-1	4240			178.0-6 *	349.8-9	3.496-9 *	
		ENDF/B-5	1324			178.0-6 *	349.8-9	3.499-9 *	
	(N,A)	JEF-1	4240			24.14-3	41.00-3	107.5-6	
		ENDF/B-5	1324			45.35-3	65.84-3	180.7-6	
		JENDL-2	2240			37.92-3	33.22-3	138.3-6	
		KEDAK-4	240000			22.98-3 *	53.17-3	309.1-6 *	
	24-CR- 50	TOTAL	JEF-1	4241	18.78	17.00	265.8	2.374	3.797
			JENDL-2	2241	24.48	22.74	322.1	2.310	3.272
		ELASTIC	JEF-1	4241	2.871	2.870	254.8	1.070	3.086
			JENDL-2	2241	8.581	8.581	311.3	1.142	2.726
		INELAST.	JEF-1	4241			2.798 *	777.0-3	664.3-3 *
			JENDL-2	2241			2.236 *	341.9-3	535.7-3 *
		(N,2N)	JEF-1	4241			21.02-3 *	9.000-3	1.827-6 *
			JENDL-2	2241			20.80-3 *	8.200-3	1.804-6 *
			KEDAK-4	240050			1.897-3 *	10.50-3	815.9-9 *
		(N,N+A)	JEF-1	4241			47.62-3 *	700.0-6	1.869-6 *
		(N,N+P)	JEF-1	4241			83.78-3 *	153.0-3	22.43-6 *
			JENDL-2	2241			208.1-3 *	286.0-3	37.87-6 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)			
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.		
24-CR- 50	CAPTURE	JEF-1	4241	15.91	14.13	7.577	731.3-6	4.679-3		
		JENDL-2	2241	15.90	14.14	7.766	118.5-6	7.837-3		
	(N,P)	JEF-1	4241			444.3-3 *	239.0-3	41.24-3 *		
		JENDL-2	2241			343.0-3 *	438.0-3	2.980-3 *		
		KEDAK-4	240050			382.0-3 *	291.7-3	35.12-3 *		
	(N,D)	JEF-1	4241			10.25-3 *	15.00-3	16.81-6 *		
	(N,A)	JEF-1	4241			68.33-3	110.0-3	654.2-6		
		JENDL-2	2241			76.99-3	94.00-3	128.6-6		
		KEDAK-4	240050			82.51-3 *	138.5-3	1.636-3 *		
	25-MN- 55	TOTAL	JEF-1	4255	15.09	13.59	638.4	2.585	3.694	
ENDF/B-5			1325	14.62	13.11	629.5	2.585	3.707		
ENDL-82			1029	15.42	14.46	648.0	2.646	3.722 *		
JENDL-2			2251	15.50	14.03	630.8	2.673	3.649		
ELASTIC		JEF-1	4255		1.755	1.755	617.9	1.265	2.705	
		ENDF/B-5	1325		1.363	1.363	610.9	1.279	2.835	
		ENDL-82	1029		2.600	2.601 *	636.9	1.300	2.753 *	
		JENDL-2	2251		2.184	2.184	612.1	1.401	2.807	
INELAST.		JEF-1	4255			4.453 *	393.7-3	984.7-3 *		
		ENDF/B-5	1325			3.839 *	492.2-3	868.3-3 *		
		ENDL-82	1029			4.016 *	520.0-3	965.1-3 *		
		JENDL-2	2251			3.730 *	415.6-3	836.7-3 *		
(N,2N)		JEF-1	4255			427.3-3 *	769.0-3	243.2-6 *		
		ENDF/B-5	1325			398.3-3 *	715.0-3	202.2-6 *		
		ENDL-82	1029			414.3-3 *	740.0-3	224.2-6 *		
		JENDL-2	2251			399.6-3 *	771.0-3	208.1-6 *		
(N,3N)		JEF-1	4255			8.534-6 *				
		ENDF/B-5	1325			8.534-6 *				
(N,N+A)		JEF-1	4255			4.768-3 *	287.0-6	195.7-9 *		
		JENDL-2	2251			8.473-3 *	3.440-3	2.752-6 *		
(N,N+P)		JEF-1	4255			60.32-3 *	71.81-3	93.18-6 *		
		JENDL-2	2251			6.385-3 *	9.510-3	3.847-6 *		
CAPTURE		JEF-1	4255		13.34	11.83	15.34	770.0-6	3.249-3	
		ENDF/B-5	1325		13.26	11.75	14.28	900.0-6	28.01-3	
		ENDL-82	1029		12.92	11.86	6.561	560.0-6	3.275-3 *	
		JENDL-2	2251		13.32	11.84	14.63	665.0-6	2.934-3	
(N,P)		JEF-1	4255			40.88-3 *	47.00-3	1.170-3 *		
		ENDF/B-5	1325			32.62-3 *	39.00-3	640.5-6 *		
		ENDL-82	1029			36.37-3 *	50.00-3	340.4-6 *		
		JENDL-2	2251			44.97-3 *	46.90-3	1.326-3 *		
(N,D)		JEF-1	4255			2.859-3 *	4.398-3	4.428-6 *		
		ENDF/B-5	1325			5.401-3 *	4.341-3	2.196-6 *		
(N,HE-3)		JEF-1	4255			157.4-6 *	420.0-6	26.57-9 *		
		ENDF/B-5	1325			491.5-6 *	363.6-6	49.84-9 *		
(N,A)		JEF-1	4255			21.72-3 *	32.60-3	115.3-6 *		
		ENDF/B-5	1325			22.68-3 *	34.60-3	139.6-6 *		
		ENDL-82	1029			24.30-3 *	35.00-3	195.4-6 *		
		JENDL-2	2251			17.22-3 *	24.60-3	202.5-6 *		
26-FE- 0		TOTAL	JEF-1	4260	14.23	13.95	142.9	2.572	3.278	
			ENDF/B-5	1326	13.96	13.72	140.3	2.595	3.259	
			ENDL-82	1030	13.36	13.04	132.7	2.613	3.250 *	
			JENDL-2	2260	14.95	14.69	142.0	2.520	3.181	
			KEDAK-4	260000	14.23	13.98	141.9	2.560	3.140 *	
		ELASTIC	JEF-1	4260		11.68	11.68	137.8	1.171	2.587
			ENDF/B-5	1326		11.40	11.40	135.2	1.195	2.589
			ENDL-82	1030		10.80	10.79	127.7	1.173	2.567 *
			JENDL-2	2260		12.44	12.41	137.1	1.245	2.521
			KEDAK-4	260000		11.68	11.68	137.3	1.211	2.525 *
		INELAST.	JEF-1	4260			3.280 *	749.3-3	682.6-3 *	
			ENDF/B-5	1326			3.078 *	749.2-3	659.0-3 *	
			ENDL-82	1030			3.252 *	916.0-3	674.3-3 *	
			JENDL-2	2260			3.066 *	621.4-3	649.5-3 *	
			KEDAK-4	260000			2.823 *	826.8-3	607.1-3 *	
		(N,2N)	JEF-1	4260			248.1-3 *	432.0-3	63.96-6 *	
			ENDF/B-5	1326			248.1-3 *	432.0-3	64.00-6 *	
			ENDL-82	1030			220.6-3 *	370.0-3	51.76-6 *	
			JENDL-2	2260			280.8-3 *	422.5-3	106.6-6 *	
			KEDAK-4	260000			57.24-3 *	316.0-3	72.17-6 *	
		(N,N+A)	JEF-1	4260			12.14-3 *	1.799-3	723.0-9 *	
		(N,N+P)	JEF-1	4260			49.93-3 *	33.00-3	8.546-6 *	
		CAPTURE	JEF-1	4260		2.556	2.273	1.371	210.5-6	2.624-3
			ENDF/B-5	1326		2.560	2.270	1.347	794.5-6	2.938-3
			ENDL-82	1030		2.554	2.245 *	1.314	70.00-6	2.540-3 *
			JENDL-2	2260		2.514	2.279	1.349	147.9-6	3.471-3 *
			KEDAK-4	260000		2.556	2.261 *	1.371 *	800.0-6	2.694-3 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.	
26-FE- 0	(N,P)	JEF-1	4260			121.6-3	125.0-3	5.732-3	
		ENDF/B-5	1326			121.6-3	125.0-3	5.735-3	
		ENDL-82	1030			124.0-3 *	126.0-3	5.951-3 *	
		JENDL-2	2260			119.5-3	125.4-3	5.312-3	
		KEDAK-4	260000			100.4-3 *	123.4-3	5.411-3 *	
	(N,D)	JEF-1	4260			11.75-3 *	19.00-3	4.916-6 *	
		ENDF/B-5	1326			11.75-3 *	19.00-3	4.920-6 *	
	(N,T)	JEF-1	4260			3.997-3 *	100.0-6	164.7-9 *	
		ENDF/B-5	1326			3.997-3 *	100.0-6	164.8-9 *	
	(N,HE-3)	JEF-1	4260			1.514-3 *	100.0-6	83.33-9 *	
		ENDF/B-5	1326			1.514-3 *	100.0-6	83.38-9 *	
	(N,A)	JEF-1	4260			27.55-3	39.90-3	305.8-6	
		ENDF/B-5	1326			27.55-3	39.90-3	305.9-6	
		ENDL-82	1030			16.09-3 *	28.00-3	123.6-6 *	
		JENDL-2	2260			95.97-3	105.3-3	1.273-3	
		KEDAK-4	260000			31.61-3 *	83.03-3	262.1-6 *	
	26-FE- 54	TOTAL	JEF-1	4264	5.565	5.310	141.8	2.695	4.145
			JENDL-2	2261	2.649	2.411	113.2	2.374	3.332
ELASTIC		JEF-1	4264	3.340	3.340	137.6	1.160	3.671	
		JENDL-2	2261	492.9-3	492.9-3	108.8	1.198	2.776	
INELAST.		JEF-1	4264			1.759 *	728.0-3	387.4-3 *	
		JENDL-2	2261			2.206 *	704.3-3	473.9-3 *	
(N,2N)		JEF-1	4264			23.31-3 *	3.000-3	1.377-6 *	
		JENDL-2	2261			28.95-3 *	3.230-3	1.906-6 *	
		KEDAK-4	260054			1.275-3 *	2.500-3	479.4-9 *	
(N,N+A)		JEF-1	4264			18.71-3 *	50.00-6	634.2-9 *	
(N,N+P)		JEF-1	4264			309.4-3 *	238.0-3	49.68-6 *	
CAPTURE		JEF-1	4264	2.225	1.970	1.279	548.6-6	5.751-3	
		JENDL-2	2261	2.156	1.918	1.328	452.2-6	6.414-3	
(N,P)		JEF-1	4264			760.5-3	365.0-3	81.19-3	
		JENDL-2	2261			756.0-3	360.0-3	74.29-3	
		KEDAK-4	260054			717.6-3 *	370.0-3	75.27-3 *	
(N,D)		JEF-1	4264			5.819-3 *	8.570-3	13.07-6 *	
(N,A)		JEF-1	4264			68.73-3	85.10-3	1.091-3	
	JENDL-2	2261			98.45-3	108.0-3	1.306-3		
	KEDAK-4	260054			48.21-3 *	90.00-3	1.088-3 *		
27-CO- 58	TOTAL	JEF-1	4277	1.935+3	1.738+3	11.83+3	2.715	3.886	
	ELASTIC	JEF-1	4277	55.25	55.62	5.130+3	1.243	2.587	
	INELAST.	JEF-1	4277			4.508 *	98.56-3	1.125 *	
	(N,2N)	JEF-1	4277			337.7-3 *	598.4-3	708.1-6 *	
	(N,N+A)	JEF-1	4277			110.1-3 *	32.90-3	8.254-6 *	
	(N,N+P)	JEF-1	4277			196.5-3 *	270.7-3	137.1-6 *	
	CAPTURE	JEF-1	4277	172.5	154.3	613.1	716.8-6	2.537-3	
	(N,P)	JEF-1	4277	1.708+3	1.527+3	6.083+3	166.0-3	162.1-3	
	(N,D)	JEF-1	4277			6.373-3 *	9.690-3	42.86-6 *	
	(N,A)	JEF-1	4277			203.2-3	291.4-3	7.355-3	
27-CO- 58M	TOTAL	JEF-1	4278	144.1+3	132.7+3	237.3+3	2.715	3.885	
	ELASTIC	JEF-1	4278	6.383+3	6.691+3	55.72+3	1.243	2.679	
	INELAST.	JEF-1	4278	1.654+3	1.511+3	2.186+3	103.6-3	1.162	
	(N,2N)	JEF-1	4278			358.4-3 *	633.5-3	761.0-6 *	
	(N,N+A)	JEF-1	4278			108.0-3 *	26.70-3	7.426-6 *	
	(N,N+P)	JEF-1	4278			168.0-3 *	193.1-3	63.37-6 *	
	CAPTURE	JEF-1	4278	100.8+3	92.05+3	132.9+3	752.1-6	4.281-3	
	(N,P)	JEF-1	4278	35.23+3	32.12+3	46.45+3	189.7-3	32.46-3	
	(N,D)	JEF-1	4278			6.373-3 *	9.690-3	42.86-6 *	
	(N,A)	JEF-1	4278			205.6-3	313.5-3	5.848-3	
27-CO- 59	TOTAL	JEF-1	4279	42.63	38.49	856.9	2.798	3.648	
		ENDF/B-5	1327	42.61	38.38	855.1	2.829	3.577	
		ENDL-82	1031	44.31	40.31	866.2	2.692	3.620 *	
		JENDL-2	2271	43.18	39.07	862.9	2.775	3.800	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
27-CO- 59	ELASTIC	JEF-1	4279	5.364	5.364	779.1	1.478	3.003	
		ENDF/B-5	1327	5.364	5.364	777.6	1.478	2.988	
		ENDL-82	1031	6.658	6.659 *	785.4	1.481	2.975 *	
		JENDL-2	2271	6.001	6.001	784.7	1.573	3.391	
	INELAST.	JEF-1	4279			2.793 *	456.0-3	635.9-3 *	
		ENDF/B-5	1327			2.634 *	456.7-3	681.0-3 *	
		ENDL-82	1031			2.793 *	456.0-3	635.9-3 *	
		JENDL-2	2271			2.119 *	486.3-3	399.2-3 *	
	(N,2N)	JEF-1	4279			391.5-3 *	750.0-3	182.7-6 *	
		ENDF/B-5	1327			391.5-3 *	750.0-3	182.8-6 *	
		ENDL-82	1031			357.2-3 *	640.0-3	172.5-6 *	
		JENDL-2	2271			354.3-3 *	640.0-3	170.8-6 *	
	CAPTURE	JEF-1	4279		37.27	33.12	74.43	840.0-6	6.176-3
		ENDF/B-5	1327		37.25	33.01	74.32	840.0-6	6.089-3
		ENDL-82	1031		37.65	33.65	77.57	1.500-3	6.316-3 *
		JENDL-2	2271		37.18	33.07	75.65	79.08-6	7.764-3
	(N,P)	JEF-1	4279				80.87-3 *	81.50-3	2.802-3 *
		ENDF/B-5	1327				50.76-3 *	64.40-3	1.640-3 *
		ENDL-82	1031				80.87-3 *	81.50-3	2.802-3 *
		JENDL-2	2271				44.68-3 *	45.90-3	1.321-3 *
	(N,D)	JEF-1	4279				1.712-3 *	1.900-3	19.84-6 *
		ENDF/B-5	1327				2.150-3 *	1.820-3	1.006-6 *
		ENDL-82	1031				1.712-3 *	1.900-3	19.84-6 *
	(N,T)	JEF-1	4279				569.1-6 *	900.0-6	754.0-9 *
		ENDF/B-5	1327				12.72-6 *	16.67-6	11.42-9 *
		ENDL-82	1031				569.1-6 *	900.0-6	754.0-9 *
	(N,A)	JEF-1	4279				19.05-3	29.10-3	152.8-6
		ENDF/B-5	1327				19.03-3	29.10-3	149.7-6
		ENDL-82	1031				19.21-3 *	29.10-3	159.6-6 *
		JENDL-2	2271				19.79-3	30.00-3	164.9-6
	28-NI- 0	TOTAL	JEF-1	4280	22.01	21.55	234.3	2.714	3.452
			ENDF/B-5	1328	22.44	21.98	245.2	2.748	3.542
			ENDL-82	1032	21.11	20.58	243.7	2.716	3.639 *
			JENDL-2	2280	21.20	20.71	237.4	2.716	3.634
			KEDAK-4	280000	22.01	21.60	233.7	2.712	3.469 *
		ELASTIC	JEF-1	4280		17.90	17.90	229.2	1.380
ENDF/B-5			1328		17.87	17.87	239.7	1.363	2.993
ENDL-82			1032		16.60	16.50	238.0	1.368	3.098 *
JENDL-2			2280		16.77	16.77	232.0	1.386	3.116
KEDAK-4			280000		17.90	17.90	228.4	1.282	2.946 *
INELAST.		JEF-1	4280				2.243 *	749.3-3	465.8-3 *
		ENDF/B-5	1328				2.098 *	421.5-3	466.6-3 *
		ENDL-82	1032				1.994 *	427.9-3	447.8-3 *
		JENDL-2	2280				2.008 *	390.7-3	434.7-3 *
		KEDAK-4	280000				2.068 *	867.3-3	435.9-3 *
(N,2N)		JEF-1	4280				83.04-3 *	136.0-3	39.48-6 *
		ENDF/B-5	1328				77.60-3 *	139.0-3	30.60-6 *
		ENDL-82	1032				67.72-3 *	98.55-3	26.10-6 *
		JENDL-2	2280				109.2-3 *	162.1-3	46.71-6 *
		KEDAK-4	280000				24.23-3 *	128.2-3	32.13-6 *
(N,3N)		JENDL-2	2280				154.4-6 *		1.736-9 *
(N,N+A)		JENDL-2	2280				29.44-3 *	20.36-3	5.131-6 *
(N,N+P)		JEF-1	4280				83.45-3 *	56.00-3	39.76-6 *
		ENDL-82	1032				267.2-3 *	372.1-3	307.9-6 *
		JENDL-2	2280				205.1-3 *	341.7-3	70.50-6 *
CAPTURE		JEF-1	4280		4.110	3.654	1.990	524.0-6	5.568-3
		ENDF/B-5	1328		4.571	4.051	2.232	284.0-6	4.201-3
		ENDL-82	1032		4.608	4.076 *	2.449	97.08-6	6.689-3 *
		JENDL-2	2280		4.429	3.939	2.222	1.970-3	7.942-3
		KEDAK-4	280000		4.110	3.636 *	1.985 *		4.425-3 *
(N,P)		JEF-1	4280				665.2-3	297.6-3	72.99-3
		ENDF/B-5	1328		359.9-9	322.6-9	642.2-3	328.2-3	73.26-3
		ENDL-82	1032				688.3-3 *	286.0-3	77.43-3 *
		JENDL-2	2280				627.1-3	307.9-3	71.04-3
		KEDAK-4	280000				641.7-3 *	336.3-3	78.29-3 *
(N,A)		JEF-1	4280				107.1-3	94.75-3	4.658-3
	ENDF/B-5	1328				144.5-3	143.7-3	4.897-3	
	ENDL-82	1032				123.7-3 *	102.3-3	9.268-3 *	
	JENDL-2	2280				115.5-3	106.8-3	4.417-3	
	KEDAK-4	280000				86.49-3 *	94.75-3	4.659-3 *	
28-NI- 58	TOTAL	JEF-1	4288	30.62	30.10	288.8	2.747	4.003	
		ENDL-82	1033	20.88	20.39	237.2	2.754	3.595 *	
		JENDL-2	2281	30.62	30.12	298.7	2.662	3.880	
ELASTIC	JEF-1	4288		26.02	26.02	283.6	1.270	3.524	
	ENDL-82	1033		16.50	16.50	231.7	1.300	3.073 *	
	JENDL-2	2281		26.02	26.02	293.5	1.351	3.401	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
28-NI- 58	INELAST.	JEF-1	4288			1.674 *	259.0-3	357.7-3 *	
		ENDL-82	1033			1.733 *	400.0-3	386.9-3 *	
		JENDL-2	2281			1.641 *	248.9-3	370.2-3 *	
	(N, 2N)	JEF-1	4288			17.72-3 *	24.00-3	2.796-6 *	
		ENDL-82	1033			28.63-3 *	23.00-3	3.383-6 *	
		JENDL-2	2281			18.07-3 *	21.50-3	2.752-6 *	
		KEDAK-4	280058			3.017-3 *	21.30-3	1.638-6 *	
	(N, N+A)	JEF-1	4288			40.61-3 *	9.880-3	3.105-6 *	
		JENDL-2	2281			43.37-3 *	30.00-3	7.559-6 *	
	(N, N+P)	JEF-1	4288			323.5-3 *	492.8-3	150.7-6 *	
		ENDL-82	1033			324.7-3 *	470.0-3	721.3-6 *	
		JENDL-2	2281			277.3-3 *	480.0-3	100.3-6 *	
	CAPTURE	JEF-1	4288		4.602	4.083	2.169	722.3-6	7.856-3
		ENDL-82	1033		4.380	3.892 *	2.320	1.000-3	9.023-3 *
		JENDL-2	2281		4.605	4.096	2.206	66.88-6	8.745-3
		KEDAK-4	280058		4.633	4.104 *	2.183 *	1.335-3	2.360-3 *
	(N, P)	JEF-1	4288			888.3-3	428.0-3	106.3-3	
		ENDL-82	1033			965.0-3 *	410.0-3	117.6-3 *	
		JENDL-2	2281			870.9-3	400.0-3	103.4-3	
		KEDAK-4	280058			904.0-3 *	440.6-3	114.5-3 *	
	(N, D)	JEF-1	4288			14.72-3 *	22.00-3	35.16-6 *	
		ENDL-82	1033			18.13-3 *	25.00-3	110.5-6 *	
	(N, A)	JEF-1	4288			123.1-3	125.8-3	5.686-3	
		ENDL-82	1033		600.0-6	589.9-6 *	145.9-3	7.057-3 *	
		JENDL-2	2281			149.6-3	131.0-3	6.112-3	
		KEDAK-4	280058			111.7-3 *	110.9-3	6.530-3 *	
	28-NI- 62	TOTAL	JEF-1	4282	23.66	21.99	454.6	2.829	3.891
			JENDL-2	2284	23.70	22.14	494.5	2.869	3.811
ELASTIC		JEF-1	4282	9.099	9.099	444.8	1.327	3.357	
		JENDL-2	2284	9.505	9.505	484.3	1.475	3.212	
INELAST.		JEF-1	4282			2.769 *	1.071	530.9-3 *	
		JENDL-2	2284			2.820 *	578.9-3	595.0-3 *	
(N, 2N)		JEF-1	4282			341.1-3 *	409.0-3	55.45-6 *	
		JENDL-2	2284			453.2-3 *	771.3-3	185.4-6 *	
		KEDAK-4	280062			112.8-3 *	585.2-3	116.8-6 *	
(N, 3N)		JEF-1	4282			470.4-6 *		3.633-9 *	
(N, N+A)		JEF-1	4282			33.18-3 *	5.940-3	1.862-6 *	
(N, N+P)		JEF-1	4282			35.07-3 *	2.000-3	1.645-6 *	
		JENDL-2	2284			18.31-3 *	700.0-6	1.047-6 *	
CAPTURE		JEF-1	4282	14.56	12.89	6.602	528.4-6	2.068-3	
		JENDL-2	2284	14.20	12.64	6.909	19.63-6	3.526-3	
(N, P)		JEF-1	4282			24.55-3 *	45.16-3	104.6-6 *	
		JENDL-2	2284			14.89-3 *	23.00-3	73.31-6 *	
		KEDAK-4	280062			21.14-3 *	52.00-3	123.5-6 *	
(N, A)		JEF-1	4282			12.52-3 *	22.22-3	63.84-6 *	
		JENDL-2	2284			12.87-3 *	20.20-3	73.37-6 *	
		KEDAK-4	280062			3.589-3 *	14.50-3	8.901-6 *	
28-NI- 64		TOTAL	JEF-1	4284	1.533	1.357	111.9	2.870	4.044
			JENDL-2	2285	1.515	1.351	111.0	2.984	3.984
		ELASTIC	JEF-1	4284	14.00-3	14.00-3	108.0	1.356	3.570
			JENDL-2	2285	34.64-3	34.64-3	107.1	1.546	3.514
		INELAST.	JEF-1	4284			2.329 *	192.9-3	470.5-3 *
			JENDL-2	2285			2.400 *	312.7-3	466.4-3 *
		(N, 2N)	JEF-1	4284			711.2-3 *	1.301	630.8-6 *
	JENDL-2		2285			640.6-3 *	1.115	524.8-6 *	
	KEDAK-4		280064			228.6-3 *	923.7-3	382.8-6 *	
	(N, 3N)	JEF-1	4284			21.51-3 *		264.5-9 *	
		JENDL-2	2285			14.30-3 *		160.7-9 *	
	(N, N+A)	JEF-1	4284			8.708-3 *	20.00-6	259.4-9 *	
	(N, N+P)	JEF-1	4284			8.740-3 *		211.6-9 *	
	CAPTURE	JEF-1	4284	1.519	1.343	812.4-3	543.8-6	2.522-3	
		JENDL-2	2285	1.480	1.317	819.4-3	2.633-6	2.731-3	
	(N, P)	JEF-1	4284			2.019-3 *	2.600-3	949.3-9 *	
		JENDL-2	2285			2.324-3 *	4.500-3	3.414-6 *	
		KEDAK-4	280064			1.382-3 *	8.000-3	803.9-9 *	
	(N, D)	JEF-1	4284			15.55-3 *	11.40-3	3.750-6 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.
28-NI- 64	(N,A)	JEF-1	4284			2.689-3 *	5.210-3	2.937-6 *
		JENDL-2	2285			3.847-3 *	5.700-3	6.909-6 *
		KEDAK-4	280064			304.1-6 *	1.800-3	160.9-9 *
29-CU- 0	TOTAL	JEF-1	4290	12.40	12.42	150.1	2.977	3.630
		ENDF/B-5	1329	12.40	12.37	148.9	2.962	3.512
		ENDL-82	1034	11.38	10.95	125.0	2.915	3.689 *
		JENDL-2	2290	11.63	11.22	143.8	3.132	4.049
	ELASTIC	JEF-1	4290	8.613	8.614	141.8	1.457	2.864
		ENDF/B-5	1329	8.610	8.609	140.5	1.397	2.752
		ENDL-82	1034	7.600	7.600 *	118.9	1.500	2.911 *
		JENDL-2	2290	7.859	7.858	135.9	1.623	3.386
	INELAST.	JEF-1	4290			3.295 *	663.8-3	739.0-3 *
		ENDF/B-5	1329			3.295 *	663.8-3	739.1-3 *
		ENDL-82	1034			3.080 *	550.0-3	750.0-3 *
		JENDL-2	2290			3.078 *	812.9-3	663.2-3 *
	(N,2N)	JEF-1	4290			367.4-3 *	601.5-3	155.9-6 *
		ENDF/B-5	1329			367.4-3 *	601.5-3	156.0-6 *
		ENDL-82	1034			390.3-3 *	640.0-3	163.5-6 *
		JENDL-2	2290			384.0-3 *	650.5-3	153.2-6 *
	(N,3N)	JEF-1	4290			1.402-3 *		13.58-9 *
		ENDF/B-5	1329			1.402-3 *		13.59-9 *
	(N,N+A)	JEF-1	4290			5.933-3 *	3.140-3	836.3-9 *
		ENDL-82	1034			13.44-3 *	7.000-3	1.354-6 *
		JENDL-2	2290			17.44-3 *	11.99-3	3.499-6 *
	(N,N+P)	JEF-1	4290			64.37-3 *	113.2-3	102.4-6 *
		ENDL-82	1034			64.40-3 *	112.0-3	164.2-6 *
	CAPTURE	JEF-1	4290	3.803	3.374	4.516	2.300-3	8.913-3
		ENDF/B-5	1329	3.792	3.359	4.504	2.300-3	8.832-3
		ENDL-82	1034	3.779	3.351 *	2.410	600.0-6	10.57-3 *
		JENDL-2	2290	3.775	3.358	4.398	82.65-6	9.875-3
(N,P)	JEF-1	4290			142.5-3	79.47-3	17.10-3	
	ENDF/B-5	1329			80.84-3	28.18-3	12.12-3	
	ENDL-82	1034			148.8-3 *	87.00-3	16.47-3 *	
	JENDL-2	2290			5.954-3 *	6.489-3	188.7-6 *	
(N,D)	JEF-1	4290			3.429-3 *	5.380-3	10.08-6 *	
	ENDF/B-5	1329			3.431-3 *	5.380-3	10.43-6 *	
(N,HE-3)	JEF-1	4290			1.384-3 *	2.270-3	395.7-9 *	
	ENDF/B-5	1329			1.385-3 *	2.270-3	396.9-9 *	
(N,A)	JEF-1	4290			27.34-3	32.57-3	291.3-6	
	ENDF/B-5	1329			23.96-3	29.10-3	263.6-6	
	ENDL-82	1034			11.28-3 *	18.00-3	66.54-6 *	
	JENDL-2	2290			23.17-3	26.95-3	379.3-6	
30-ZN- 64	TOTAL	JEF-1	4304	4.668	4.582	131.0	3.054	3.934
	ELASTIC	JEF-1	4304	3.903	3.903	125.6	1.520	3.136
	INELAST.	JEF-1	4304			3.313 *	984.0-3	734.3-3 *
	(N,2N)	JEF-1	4304			85.04-3 *	120.0-3	16.18-6 *
	(N,N+A)	JEF-1	4304			16.40-3 *	29.00-3	7.305-6 *
	(N,N+P)	JEF-1	4304			105.1-3 *	187.0-3	50.46-6 *
	CAPTURE	JEF-1	4304	765.5-3	679.7-3	1.458	841.5-6	20.92-3
	(N,P)	JEF-1	4304			398.1-3	193.0-3	44.23-3
(N,A)	JEF-1	4304			22.49-3	20.00-3	427.4-6	
31-GA- 0	TOTAL	JEF-1	4310	9.482	9.145	128.0	3.121	3.770
		ENDF/B-5	1368	9.482	9.147	129.1	3.216	3.852
		ENDL-82	1035	9.482	9.144 *	128.0	3.121	3.770 *
	ELASTIC	JEF-1	4310	6.500	6.500	115.5	1.588	2.635
		ENDF/B-5	1368	6.500	6.500	116.9	1.812	2.723
		ENDL-82	1035	5.500	6.500 *	115.5	1.588	2.635 *
	INELAST.	JEF-1	4310			4.244 *	500.0-3	1.111 *
		ENDF/B-5	1368			4.243 *	500.0-3	1.110 *
		ENDL-82	1035			4.244 *	500.0-3	1.111 *
	(N,2N)	JEF-1	4310			552.0-3 *	980.0-3	443.0-6 *
		ENDF/B-5	1368			473.2-3 *	847.1-3	275.5-6 *
		ENDL-82	1035			552.0-3 *	980.0-3	443.0-6 *
	CAPTURE	JEF-1	4310	2.982	2.645	7.620	714.9-6	23.25-3
		ENDF/B-5	1368	2.982	2.644	7.404	715.2-6	16.52-3
		ENDL-82	1035	2.982	2.644 *	7.620	714.9-6	23.25-3 *
	(N,P)	JEF-1	4310			14.49-3 *	18.00-3	152.3-6 *
		ENDF/B-5	1368			14.49-3 *	18.00-3	152.3-6 *
		ENDL-82	1035			14.49-3 *	18.00-3	152.3-6 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.
31-GA-0	(N,A)	JEF-1	4310			35.94-3	35.00-3	1.821-3
		ENDF/B-5	1358			35.94-3	35.00-3	1.822-3
		ENDL-82	1035			35.94-3 *	35.00-3	1.821-3 *
32-GE-72	TOTAL	JEF-1	4322	3.763	3.653	88.33	3.606	3.889
		ENDF/B-5	9050	3.763	3.653	88.33	3.606	3.889
	ELASTIC	JEF-1	4322	2.783	2.783	83.76	2.402	3.175
		ENDF/B-5	9050	2.783	2.783	83.76	2.402	3.175
	INELAST.	JEF-1	4322			3.409 *	1.206	684.1-3 *
		ENDF/B-5	9050			3.409 *	1.206	684.1-3 *
	CAPTURE	JEF-1	4322	980.2-3	869.0-3	1.138	1.434-3	24.10-3
		ENDF/B-5	9050	980.2-3	869.0-3	1.138	1.434-3	24.10-3
32-GE-73	TOTAL	JEF-1	4323	15.73	14.10	475.1	3.653	3.945
		ENDF/B-5	9051	15.73	14.03	474.4	3.648	3.937
	ELASTIC	JEF-1	4323	712.8-3	712.5-3	400.0	2.440	3.024
		ENDF/B-5	9051	712.8-3	712.6-3	399.5	2.438	3.014
	INELAST.	JEF-1	4323			4.742 *	1.211	864.5-3 *
		ENDF/B-5	9051			4.742 *	1.211	864.5-3 *
	CAPTURE	JEF-1	4323	15.13	13.38	70.14	1.880-3	50.22-3
		ENDF/B-5	9051	15.02	13.32	70.05	1.877-3	50.13-3
32-GE-74	TOTAL	JEF-1	4324	2.729	2.687	92.76	3.688	3.989
		ENDF/B-5	9053	2.729	2.687	92.76	3.688	3.989
	ELASTIC	JEF-1	4324	2.346	2.346	88.54	2.462	3.237
		ENDF/B-5	9053	2.346	2.346	88.54	2.462	3.237
	INELAST.	JEF-1	4324			3.590 *	1.228	736.0-3 *
		ENDF/B-5	9053			3.590 *	1.228	736.0-3 *
	CAPTURE	JEF-1	4324	383.4-3	339.8-3	611.9-3	1.363-3	11.43-3
		ENDF/B-5	9053	383.4-3	339.8-3	611.9-3	1.363-3	11.43-3
32-GE-76	TOTAL	JEF-1	4326	3.119	3.105	78.95	3.763	4.098
		ENDF/B-5	9056	3.119	3.105	78.95	3.763	4.098
	ELASTIC	JEF-1	4326	2.977	2.977	74.01	2.557	3.350
		ENDF/B-5	9056	2.977	2.977	74.01	2.557	3.350
	INELAST.	JEF-1	4326			3.566 *	1.207	736.2-3 *
		ENDF/B-5	9056			3.566 *	1.207	736.2-3 *
	CAPTURE	JEF-1	4326	142.2-3	126.0-3	1.348	1.277-3	3.588-3
		ENDF/B-5	9056	142.2-3	126.0-3	1.348	1.277-3	3.588-3
33-AS-75	TOTAL	JEF-1	4335	6.024	5.541	207.1	3.726	4.044
		ENDF/B-5	9071	6.024	5.541	207.1	3.726	4.044
		ENDL-82	1037	12.37	12.27	260.9	3.453	4.743 *
	ELASTIC	JEF-1	4335	1.719	1.719	140.2	2.498	2.790
		ENDF/B-5	9071	1.719	1.719	140.2	2.498	2.790
		ENDL-82	1037	8.170	8.170 *	176.1	1.890	3.338 *
	INELAST.	JEF-1	4335			5.105 *	1.230	1.205 *
		ENDF/B-5	9071			5.105 *	1.230	1.205 *
		ENDL-82	1037			5.144 *	530.0-3	1.360 *
	(N,2N)	ENDL-82	1037			525.8-3 *	1.000	278.1-6 *
	(N,3N)	ENDL-82	1037			1.160-3 *		10.52-9 *
	CAPTURE	JEF-1	4335	4.304	3.821	61.79	1.535-3	45.21-3
		ENDF/B-5	9071	4.304	3.821	61.79	1.535-3	45.21-3
		ENDL-82	1037	4.200	4.098 *	79.13	3.000-3	44.77-3 *
	(N,P)	ENDL-82	1037			17.89-3 *	20.00-3	208.0-6 *
	(N,A)	ENDL-82	1037			4.787-3 *	10.00-3	37.45-6 *
34-SE-74	TOTAL	JEF-1	4344	49.36	81.71	1.348+3	6.222	4.640
		ENDF/B-5	9089	49.36	81.71	1.348+3	6.222	4.640
	ELASTIC	JEF-1	4344			761.0	4.640	3.613
		ENDF/B-5	9089			760.9	4.640	3.613
	INELAST.	JEF-1	4344			4.579 *	1.580	998.0-3 *
		ENDF/B-5	9089			4.579 *	1.580	998.0-3 *
	CAPTURE	JEF-1	4344	51.72	84.08	582.1	1.640-3	29.04-3
		ENDF/B-5	9089	51.72	84.08	582.1	1.640-3	29.04-3
34-SE-76	TOTAL	JEF-1	4346	86.75	77.12	157.1	3.763	4.106
		ENDF/B-5	9091	86.75	77.12	157.1	3.763	4.106
	ELASTIC	JEF-1	4346	1.750	1.750	109.0	2.596	3.323
		ENDF/B-5	9091	1.750	1.750	109.0	2.596	3.323

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.
34-SE- 76	INELAST.	JEF-1	4346			3.521 *	1.168	741.4-3 *
		ENDF/B-5	9091			3.521 *	1.168	741.4-3 *
	CAPTURE	JEF-1	4346	85.00	75.37	44.54	1.620-3	35.98-3
		ENDF/B-5	9091	85.00	75.37	44.54	1.620-3	35.98-3
34-SE- 77	TOTAL	JEF-1	4347	44.29	39.53	168.9	3.798	4.167
		ENDF/B-5	9092	44.29	39.53	168.9	3.798	4.167
	ELASTIC	JEF-1	4347	2.285	2.285	127.1	2.593	2.868
		ENDF/B-5	9092	2.285	2.285	127.1	2.593	2.868
	INELAST.	JEF-1	4347			5.189 *	1.205	1.249 *
		ENDF/B-5	9092			5.189 *	1.205	1.249 *
	CAPTURE	JEF-1	4347	42.00	37.24	36.57	2.056-3	39.97-3
		ENDF/B-5	9092	42.00	37.24	36.57	2.056-3	39.97-3
34-SE- 78	TOTAL	JEF-1	4348	2.895	2.852	93.42	3.830	4.233
		ENDF/B-5	9094	2.895	2.852	93.42	3.830	4.233
	ELASTIC	JEF-1	4348	2.495	2.495	85.15	2.634	3.427
		ENDF/B-5	9094	2.495	2.495	85.15	2.634	3.427
	INELAST.	JEF-1	4348			3.674 *	1.197	786.2-3 *
		ENDF/B-5	9094			3.674 *	1.197	786.2-3 *
	CAPTURE	JEF-1	4348	400.1-3	355.1-3	4.582	1.520-3	14.88-3
		ENDF/B-5	9094	400.1-3	355.1-3	4.582	1.520-3	14.88-3
34-SE- 80	TOTAL	JEF-1	4340	1.287	1.219	136.4	3.891	4.380
		ENDF/B-5	9097	1.287	1.219	136.4	3.891	4.380
	ELASTIC	JEF-1	4340	675.3-3	675.3-3	131.8	2.726	3.597
		ENDF/B-5	9097	675.3-3	675.3-3	131.8	2.726	3.597
	INELAST.	JEF-1	4340			3.555 *	1.167	761.0-3 *
		ENDF/B-5	9097			3.555 *	1.167	761.0-3 *
	CAPTURE	JEF-1	4340	611.6-3	541.9-3	1.082	1.447-3	14.92-3
		ENDF/B-5	9097	611.6-3	541.9-3	1.082	1.447-3	14.92-3
34-SE- 82	TOTAL	JEF-1	4342	2.927	2.923	75.63	3.946	4.510
		ENDF/B-5	9100	2.927	2.923	75.63	3.946	4.510
	ELASTIC	JEF-1	4342	2.882	2.882	72.05	2.798	3.769
		ENDF/B-5	9100	2.882	2.882	72.05	2.798	3.769
	INELAST.	JEF-1	4342			3.456 *	1.150	728.1-3 *
		ENDF/B-5	9100			3.456 *	1.150	728.1-3 *
	CAPTURE	JEF-1	4342	45.05-3	39.95-3	93.59-3	1.319-3	4.569-3
		ENDF/B-5	9100	45.05-3	39.95-3	93.59-3	1.319-3	4.569-3
35-BR- 79	TOTAL	JEF-1	4359	13.57	12.28	277.9	3.849	4.309
		ENDF/B-5	9113	13.50	12.23	277.3	3.862	4.303
	ELASTIC	JEF-1	4359	2.361	2.361	135.6	2.677	2.967
		ENDF/B-5	9113	2.362	2.361	135.2	2.687	2.962
	INELAST.	JEF-1	4359			5.192 *	1.175	1.252 *
		ENDF/B-5	9113			5.192 *	1.175	1.252 *
	CAPTURE	JEF-1	4359	11.20	9.915	136.8	1.722-3	85.97-3
		ENDF/B-5	9113	11.14	9.866	136.7	1.717-3	85.80-3
35-BR- 81	TOTAL	JEF-1	4351	5.575	5.261	201.9	3.925	4.451
		ENDF/B-5	9117	5.548	5.235	201.3	3.920	4.445
		JENDL-1	3581	7.289	6.977	211.9	3.679	4.639 *
	ELASTIC	JEF-1	4351	2.843	2.843	147.5	2.745	3.397
		ENDF/B-5	9117	2.843	2.843	146.7	2.742	3.388
		JENDL-1	3581	4.584	4.584	155.3	2.097	3.345 *
	INELAST.	JEF-1	4351			4.307 *	1.179	987.1-3 *
		ENDF/B-5	9117			4.307 *	1.179	987.1-3 *
		JENDL-1	3581			5.018 *	1.580	1.257 *
	CAPTURE	JEF-1	4351	2.708	2.401	50.37	1.640-3	58.04-3
		ENDF/B-5	9117	2.705	2.391	50.28	1.636-3	57.83-3
		JENDL-1	3581	2.705	2.391	51.65	140.5-6	34.53-3 *
36-KR- 78	TOTAL	JEF-1	4368	13.67	13.12	197.1	3.783	5.042
		ENDF/B-5	1330	13.66	13.11	197.1	3.783	5.038
	ELASTIC	JEF-1	4368	8.814	8.813	166.9	1.926	3.460
		ENDF/B-5	1330	8.814	8.813	166.9	1.926	3.455
	INELAST.	JEF-1	4368			5.921 *	1.365	1.482 *
		ENDF/B-5	1330			5.921 *	1.365	1.483 *
	(N, 2N)	JEF-1	4368			129.1-3 *	198.5-3	26.63-6 *
		ENDF/B-5	1330			129.1-3 *	198.5-3	26.64-6 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.
36-KR- 78	CAPTURE	JEF-1	4368	4.853	4.310	23.73	177.0-6	71.50-3
		ENDF/B-5	1330	4.849	4.295	23.70	177.0-6	71.25-3
	(N,P)	JEF-1	4368			367.8-3	250.8-3	26.39-3
		ENDF/B-5	1330			367.8-3	250.8-3	26.40-3
	(N,D)	JEF-1	4368			19.12-3 *	22.49-3	8.498-6 *
		ENDF/B-5	1330			19.12-3 *	22.49-3	8.503-6 *
	(N,T)	JEF-1	4368			3.633-3 *		125.7-9 *
ENDF/B-5		1330			3.633-3 *		125.7-9 *	
(N,HE-3)	JEF-1	4368			1.656-3 *	540.0-6	83.61-9 *	
	ENDF/B-5	1330			1.656-3 *	540.0-6	83.67-9 *	
(N,A)	JEF-1	4368			28.85-3	18.16-3	1.848-3	
	ENDF/B-5	1330			28.85-3	18.16-3	1.849-3	
36-KR- 80	TOTAL	JEF-1	4360	21.28	19.94	346.1	3.651	5.209
		ENDF/B-5	1331	21.24	19.90	345.8	3.651	5.205
	ELASTIC	JEF-1	4360	9.498	9.497	271.5	1.938	3.757
		ENDF/B-5	1331	9.498	9.497	271.3	1.938	3.754
	INELAST.	JEF-1	4360			5.437 *	899.7-3	1.407 *
		ENDF/B-5	1331			5.437 *	899.7-3	1.408 *
	(N,2N)	JEF-1	4360			449.7-3 *	777.0-3	125.2-6 *
		ENDF/B-5	1331			449.7-3 *	777.0-3	125.2-6 *
	CAPTURE	JEF-1	4360	11.78	10.44	68.67	1.050-3	42.50-3
		ENDF/B-5	1331	11.74	10.40	68.67	1.050-3	42.29-3
	(N,P)	JEF-1	4360			35.72-3 *	24.70-3	1.557-3 *
		ENDF/B-5	1331			35.72-3 *	24.70-3	1.558-3 *
	(N,D)	JEF-1	4360			13.19-3 *	12.60-3	3.422-6 *
ENDF/B-5		1331			13.20-3 *	12.60-3	3.424-6 *	
(N,T)	JEF-1	4360			2.440-3 *		69.95-9 *	
	ENDF/B-5	1331			2.441-3 *		70.00-9 *	
(N,HE-3)	JEF-1	4360			513.0-6 *	40.23-6	70.27-9 *	
	ENDF/B-5	1331			513.0-6 *	40.23-6	70.31-9 *	
(N,A)	JEF-1	4360			2.252-3	1.070-3	99.22-6	
	ENDF/B-5	1331			2.252-3	1.070-3	99.26-6	
36-KR- 82	TOTAL	JEF-1	4362	40.55	37.00	417.3	3.765	4.990
		ENDF/B-5	1332	40.32	36.88	416.5	3.793	4.975
	ELASTIC	JEF-1	4362	10.15	10.14	228.3	2.040	3.845
		ENDF/B-5	1332	10.15	10.14	228.1	2.054	3.836
	INELAST.	JEF-1	4362			4.559 *	609.2-3	1.120 *
		ENDF/B-5	1332			4.559 *	609.2-3	1.120 *
	(N,2N)	JEF-1	4362			595.9-3 *	1.110	249.7-6 *
		ENDF/B-5	1332			595.9-3 *	1.110	249.8-6 *
	CAPTURE	JEF-1	4362	30.40	26.83	183.5	33.64-6	18.33-3
		ENDF/B-5	1332	30.17	26.74	183.2	33.64-6	18.19-3
	(N,P)	JEF-1	4362			11.47-3 *	12.69-3	182.9-6 *
		ENDF/B-5	1332			11.47-3 *	12.69-3	183.0-6 *
	(N,D)	JEF-1	4362			8.032-3 *	6.103-3	1.338-6 *
ENDF/B-5		1332			8.032-3 *	6.103-3	1.339-6 *	
(N,T)	JEF-1	4362			1.603-3 *		39.77-9 *	
	ENDF/B-5	1332			1.603-3 *		39.80-9 *	
(N,HE-3)	JEF-1	4362			970.4-6 *		12.36-9 *	
	ENDF/B-5	1332			970.3-6 *		12.37-9 *	
(N,A)	JEF-1	4362			871.7-6	799.6-6	6.188-6	
	ENDF/B-5	1332			871.7-6	799.7-6	6.190-6	
36-KR- 83	TOTAL	JEF-1	4363	218.4	193.8	365.2	3.537	5.163
		ENDF/B-5	1333	218.1	193.2	364.3	3.511	5.146
	ELASTIC	JEF-1	4363	10.25	10.22	168.5	2.066	3.648
		ENDF/B-5	1333	10.24	10.20	168.0	2.085	3.632
	INELAST.	JEF-1	4363			6.533 *	4.000-6	1.469 *
		ENDF/B-5	1333			6.533 *	4.000-6	1.469 *
	(N,2N)	JEF-1	4363			1.136 *	1.410	5.116-3 *
		ENDF/B-5	1333			1.136 *	1.410	5.118-3 *
	(N,3N)	JEF-1	4363			32.15-6 *		
		ENDF/B-5	1333			32.15-6 *		
	CAPTURE	JEF-1	4363	208.1	183.6	188.9	40.57-6	39.03-3
		ENDF/B-5	1333	207.9	183.0	188.5	40.57-6	38.78-3

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.
36-KR- 83	(N,P)	JEF-1	4363			4.118-3 *	5.124-3	134.6-6 *
		ENDF/B-5	1333			4.118-3 *	5.124-3	134.6-6 *
	(N,D)	JEF-1	4363			7.195-3 *	5.905-3	1.358-6 *
		ENDF/B-5	1333			7.195-3 *	5.905-3	1.359-6 *
	(N,T)	JEF-1	4363			4.847-3 *	2.690-3	441.1-9 *
ENDF/B-5		1333			4.847-3 *	2.690-3	441.4-9 *	
(N,HE-3)	JEF-1	4363			20.45-6 *	25.87-6	7.604-9 *	
	ENDF/B-5	1333			20.45-6 *	25.87-6	7.607-9 *	
(N,A)	JEF-1	4363			610.8-6	637.0-6	9.300-6	
	ENDF/B-5	1333			610.8-6	637.0-6	9.305-6	
36-KR- 84	TOTAL	JEF-1	4364	6.791	6.781	136.1	3.859	5.201
		ENDF/B-5	1334	6.791	6.781	136.1	3.859	5.199
		JENDL-1	3684	5.552	5.537	116.2	3.780	4.868 *
	ELASTIC	JEF-1	4364	6.708	6.708	127.5	2.115	4.104
		ENDF/B-5	1334	6.708	6.708	127.5	2.115	4.101
		JENDL-1	3684	5.422	5.422	109.2	2.167	4.075 *
	INELAST.	JEF-1	4364			4.401 *	439.2-3	1.090 *
		ENDF/B-5	1334			4.401 *	439.2-3	1.091 *
		JENDL-1	3684			3.595 *	1.608	771.4-3 *
	(N,2N)	JEF-1	4364			705.4-3 *	1.300	411.4-6 *
		ENDF/B-5	1334			705.4-3 *	1.300	411.5-6 *
	CAPTURE	JEF-1	4364	83.49-3	73.72-3	3.491	21.60-6	7.250-3
		ENDF/B-5	1334	82.91-3	73.47-3	3.488	21.60-6	7.205-3
		JENDL-1	3684	130.5-3	115.5-3	3.341 *	81.20-6	18.83-3 *
	(N,P)	JEF-1	4364			1.450-3 *	2.016-3	4.587-6 *
		ENDF/B-5	1334			1.450-3 *	2.016-3	4.589-6 *
	(N,D)	JEF-1	4364			4.800-3 *	2.970-3	532.3-9 *
		ENDF/B-5	1334			4.800-3 *	2.970-3	532.6-9 *
	(N,T)	JEF-1	4364			1.053-3 *	23.10-6	28.18-9 *
		ENDF/B-5	1334			1.053-3 *	23.10-6	28.20-9 *
(N,HE-3)	JEF-1	4364			5.819-6 *			
	ENDF/B-5	1334			5.819-6 *			
(N,A)	JEF-1	4364			271.0-6 *	171.0-6	512.3-9 *	
	ENDF/B-5	1334			271.0-6	171.0-6	512.6-9	
36-KR- 85	TOTAL	JEF-1	4365	5.194	5.034	107.2	4.017	4.718
		ENDF/B-5	9145	5.194	5.472	110.2	4.020	4.733
	ELASTIC	JEF-1	4365	3.534	3.534	102.7	2.865	4.298
		ENDF/B-5	9145	3.534	3.534	102.6	2.866	4.299
	INELAST.	JEF-1	4365			2.689 *	1.154	411.6-3 *
ENDF/B-5	9145			2.689 *	1.154	411.6-3 *		
CAPTURE	JEF-1	4365	1.660	1.471	1.673	2.005-3	5.499-3	
	ENDF/B-5	9145	1.660	1.472	1.672	2.005-3	5.499-3	
36-KR- 86	TOTAL	JEF-1	4366	6.073	6.066	132.5	3.927	5.501
		ENDF/B-5	1336	6.073	6.066	132.5	3.927	5.499
	ELASTIC	JEF-1	4366	6.012	6.012	127.5	2.173	4.625
		ENDF/B-5	1336	6.012	6.012	127.5	2.173	4.623
	INELAST.	JEF-1	4366			4.017 *	343.3-3	874.4-3 *
	ENDF/B-5	1336			4.017 *	343.3-3	874.6-3 *	
	(N,2N)	JEF-1	4366			776.4-3 *	1.410	571.3-6 *
		ENDF/B-5	1336			776.4-3 *	1.410	571.4-6 *
	(N,3N)	JEF-1	4366			17.25-3 *		173.3-9 *
		ENDF/B-5	1336			17.25-3 *		173.5-9 *
	CAPTURE	JEF-1	4366	61.57-3	54.66-3	142.0-3	5.314-6	1.282-3
		ENDF/B-5	1336	61.47-3	54.48-3	141.8-3	5.314-6	1.276-3
	(N,P)	JEF-1	4366			282.1-6 *	186.4-6	112.1-9 *
		ENDF/B-5	1336			282.1-6 *	186.4-6	112.2-9 *
	(N,D)	JEF-1	4366			2.300-3 *	1.000-3	147.7-9 *
		ENDF/B-5	1336			2.300-3 *	1.000-3	147.8-9 *
(N,T)	JEF-1	4366			533.8-6 *		10.45-9 *	
	ENDF/B-5	1336			533.8-6 *		10.46-9 *	
37-RB- 85	TOTAL	JEF-1	4375	3.034	2.983	113.0	4.020	4.738
		ENDF/B-5	9160	3.034	2.983	113.0	4.020	4.738
		JENDL-1	3785	4.621	4.570	118.4	3.814	4.957 *
	ELASTIC	JEF-1	4375	2.574	2.574	102.8	2.864	3.798
		ENDF/B-5	9160	2.574	2.574	102.8	2.864	3.798
JENDL-1	3785	4.160	4.160	107.5	2.190	3.713 *		

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
37-RB- 86	INELAST.	JEF-1	4375			4.241 *	1.158	908.1-3 *	
		ENDF/B-5	9160			4.241 *	1.158	908.1-3 *	
		JENDL-1	3785			5.078 *	1.619	1.205 *	
	CAPTURE	JEF-1	4375	460.6-3	408.4-3	5.945	734.4-6	27.69-3	
		ENDF/B-5	9160	460.6-3	408.4-3	5.945	734.4-6	27.69-3	
		JENDL-1	3785	460.1-3	408.4-3	5.848 *	110.2-6	35.29-3 *	
37-RB- 86	TOTAL	JEF-1	4376	8.462	7.940	130.0	4.040	4.792	
		ENDF/B-5	9161	8.462	8.747	148.4	4.043	4.802	
	ELASTIC	JEF-1	4376	3.562	3.562	101.5	2.869	3.686	
		ENDF/B-5	9161	3.562	3.562	101.4	2.870	3.686	
	INELAST.	JEF-1	4376			4.374 *	1.173	1.088 *	
		ENDF/B-5	9161			4.374 *	1.173	1.088 *	
	CAPTURE	JEF-1	4376	4.900	4.342	23.95	2.157-3	10.48-3	
		ENDF/B-5	9161	4.900	4.344	23.94	2.157-3	10.48-3	
	37-RB- 87	TOTAL	JEF-1	4377	2.380	2.367	100.3	4.066	4.871
			ENDF/B-5	9163	2.380	2.367	100.3	4.066	4.871
			JENDL-1	3787	4.125	4.111	118.7	3.885	5.122 *
ELASTIC		JEF-1	4377	2.259	2.259	94.14	2.908	3.935	
		ENDF/B-5	9163	2.259	2.259	94.14	2.908	3.935	
		JENDL-1	3787	4.005	4.005	112.4	2.238	4.166 *	
INELAST.		JEF-1	4377			4.026 *	1.159	920.6-3 *	
		ENDF/B-5	9163			4.026 *	1.159	920.6-3 *	
		JENDL-1	3787			4.212 *	1.644	949.3-3 *	
CAPTURE		JEF-1	4377	120.6-3	106.7-3	2.105	76.18-6	2.819-3	
		ENDF/B-5	9163	120.6-3	106.7-3	2.104	76.18-6	2.819-3	
	JENDL-1	3787	120.6-3	106.7-3	2.100 *	29.02-6	4.271-3 *		
38-SR- 84	TOTAL	JEF-1	4384	4.698	6.319	154.9	6.262	5.029	
		ENDF/B-5	9179	4.698	6.319	154.9	6.262	5.029	
	ELASTIC	JEF-1	4384	3.880	3.880	140.3	4.800	4.137	
		ENDF/B-5	9179	3.880	3.880	140.3	4.800	4.137	
	INELAST.	JEF-1	4384			3.966 *	1.460	823.6-3 *	
		ENDF/B-5	9179			3.966 *	1.460	823.6-3 *	
	CAPTURE	JEF-1	4384	817.8-3	2.439	10.62	2.020-3	67.73-3	
		ENDF/B-5	9179	817.8-3	2.439	10.62	2.020-3	67.73-3	
	38-SR- 86	TOTAL	JEF-1	4386	5.029	4.710	145.8	4.043	4.797
			ENDF/B-5	9182	5.029	4.710	145.8	4.043	4.797
		ELASTIC	JEF-1	4386	2.187	2.187	137.7	2.894	4.273
			ENDF/B-5	9182	2.187	2.187	137.7	2.894	4.273
INELAST.		JEF-1	4386			2.835 *	1.149	495.8-3 *	
		ENDF/B-5	9182			2.835 *	1.149	495.8-3 *	
CAPTURE		JEF-1	4386	2.842	2.521	5.181	1.947-3	17.89-3	
		ENDF/B-5	9182	2.842	2.521	5.181	1.947-3	17.89-3	
38-SR- 87		TOTAL	JEF-1	4387	19.32	17.60	215.2	4.088	4.880
			ENDF/B-5	9183	19.27	17.52	214.8	4.066	4.868
		ELASTIC	JEF-1	4387	3.216	3.213	93.43	2.940	4.321
			ENDF/B-5	9183	3.217	3.216	93.23	2.919	4.317
	INELAST.	JEF-1	4387			2.932 *	1.146	523.0-3 *	
		ENDF/B-5	9183			2.932 *	1.146	523.0-3 *	
	CAPTURE	JEF-1	4387	16.10	14.36	118.7	2.389-3	19.43-3	
		ENDF/B-5	9183	16.06	14.30	118.6	2.384-3	19.38-3	
	38-SR- 88	TOTAL	JEF-1	4388	3.654	3.643	70.86	4.108	4.823
			ENDF/B-5	9185	3.622	3.622	70.63	4.087	4.805
		ELASTIC	JEF-1	4388	3.616	3.616	68.37	2.975	4.494
			ENDF/B-5	9185	3.616	3.616	68.09	2.956	4.477
INELAST.		JEF-1	4388			2.405 *	1.131	320.5-3 *	
		ENDF/B-5	9185			2.405 *	1.131	320.5-3 *	
CAPTURE		JEF-1	4388	5.840-3	5.164-3	12.47-3	1.599-3	1.278-3	
		ENDF/B-5	9185	5.800-3	5.143-3	12.41-3	1.595-3	1.275-3	
38-SR- 89		TOTAL	JEF-1	4389	4.064	4.027	99.68	4.105	4.994
			ENDF/B-5	9186	4.064	4.220	100.6	4.108	5.000
		ELASTIC	JEF-1	4389	3.644	3.644	96.77	2.965	4.700
			ENDF/B-5	9186	3.644	3.644	96.72	2.965	4.700
	INELAST.	JEF-1	4389			2.335 *	1.142	285.3-3 *	
		ENDF/B-5	9186			2.336 *	1.142	285.4-3 *	
	CAPTURE	JEF-1	4389	420.0-3	372.3-3	527.2-3	2.154-3	8.206-3	
		ENDF/B-5	9186	420.0-3	372.4-3	526.9-3	2.155-3	8.206-3	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
38-SR- 90	TOTAL	JEF-1	4380	4.571	4.493	87.74	4.127	5.042	
		ENDF/B-5	9187	4.571	4.801	90.27	4.129	5.048	
	ELASTIC	JEF-1	4380	3.671	3.671	83.75	2.967	4.346	
		ENDF/B-5	9187	3.671	3.671	83.69	2.968	4.346	
	INELAST.	JEF-1	4380			3.349 *	1.162	682.1-3 *	
		ENDF/B-5	9187			3.349 *	1.162	682.1-3 *	
	CAPTURE	JEF-1	4380			900.0-3	1.506-3	5.880-3	
		ENDF/B-5	9187			900.0-3	1.506-3	5.879-3	
39-Y - 89	TOTAL	JEF-1	4399	4.755	4.622	84.72	4.137	5.241	
		ENDF/B-5	9202	4.737	4.594	84.50	4.108	5.233	
		ENDL-82	1039	10.46	9.909 *	116.8	3.391	4.819 *	
		JENDL-1	3989	8.441	8.296	116.5	3.961	5.270 *	
	ELASTIC	JEF-1	4399	3.457	3.457	80.22	2.970	4.540	
		ENDF/B-5	9202	3.457	3.457	80.14	2.952	4.526	
		ENDL-82	1039	8.039	7.950 *	109.8	1.800	3.846 *	
		JENDL-1	3989	7.158	7.158	112.5	2.285	4.636 *	
	INELAST.	JEF-1	4399			3.358 *	1.156	698.7-3 *	
		ENDF/B-5	9202			3.358 *	1.156	698.7-3 *	
		ENDL-82	1039			3.987 *	680.0-3	968.0-3 *	
		JENDL-1	3989			3.292 *	1.672	626.9-3 *	
	(N,2N)	ENDL-82	1039			474.6-3 *	880.0-3	135.8-6 *	
	CAPTURE	JEF-1	4399	1.280	1.141	989.6-3	1.740-3	8.034-3	
		ENDF/B-5	9202	1.280	1.135	985.6-3	1.735-3	8.012-3	
		ENDL-82	1039	2.420	1.959 *	2.501	1.318-3	5.011-3 *	
		JENDL-1	3989	1.283	1.138	771.6-3 *	33.47-6	6.700-3 *	
	(N,P)	ENDL-82	1039			17.01-3 *	25.00-3	100.7-6 *	
	(N,A)	ENDL-82	1039			2.514-3 *	5.000-3	6.108-6 *	
	39-Y - 90	TOTAL	JEF-1	4390	7.171	6.812	117.7	4.127	5.048
			ENDF/B-5	9204	7.171	7.511	122.0	4.129	5.049
		ELASTIC	JEF-1	4390	3.671	3.671	108.0	2.962	3.903
			ENDF/B-5	9204	3.671	3.671	107.9	2.963	3.903
		INELAST.	JEF-1	4390			4.793 *	1.166	1.114 *
			ENDF/B-5	9204			4.793 *	1.166	1.114 *
		CAPTURE	JEF-1	4390	3.500	3.102	4.758	1.919-3	17.21-3
			ENDF/B-5	9204	3.500	3.104	4.756	1.919-3	17.21-3
	39-Y - 91	TOTAL	JEF-1	4391	5.098	4.964	107.3	4.148	5.111
ENDF/B-5			9206	5.098	5.362	109.7	4.149	5.112	
ELASTIC		JEF-1	4391	3.698	3.698	101.1	2.845	4.083	
		ENDF/B-5	9206	3.698	3.698	101.1	2.846	4.084	
INELAST.		JEF-1	4391			4.357 *	1.305	1.017 *	
		ENDF/B-5	9206			4.357 *	1.305	1.017 *	
CAPTURE		JEF-1	4391	1.400	1.241	1.668	1.664-3	6.590-3	
		ENDF/B-5	9206	1.400	1.241	1.668	1.663-3	6.590-3	
40-ZR- 0	TOTAL	JEF-1	4409	6.418	6.406	129.4	3.888	5.896	
		ENDF/B-5	1340	5.205	5.185	114.6	3.886	5.690	
		ENDL-82	1040	6.418	6.406 *	129.4	3.888	5.896 *	
	ELASTIC	JEF-1	4409	6.235	6.255	124.6	2.150	5.298	
		ENDF/B-5	1340	5.024	5.024	109.8	2.311	5.027	
		ENDL-82	1040	6.235	6.244 *	124.6	2.150	5.298 *	
	INELAST.	JEF-1	4409			2.980 *	500.0-3	587.9-3 *	
		ENDF/B-5	1340			3.108 *	617.0-3	652.3-3 *	
		ENDL-82	1040			2.980 *	500.0-3	587.9-3 *	
	(N,2N)	JEF-1	4409			689.1-3 *	1.200	1.464-3 *	
		ENDF/B-5	1340			614.8-3 *	920.2-3	1.270-3 *	
		ENDL-82	1040			689.1-3 *	1.200	1.465-3 *	
	(N,3N)	JEF-1	4409			23.32-3 *		964.4-9 *	
		ENDL-82	1040			23.32-3 *		964.4-9 *	
	CAPTURE	JEF-1	4409			183.1-3	555.0-6	4.242-3	
		ENDF/B-5	1340			181.2-3	830.0-6	9.435-3	
		ENDL-82	1040			183.1-3	555.0-6	4.242-3 *	
	(N,P)	JEF-1	4409			41.93-3 *	37.00-3	2.334-3 *	
		ENDF/B-5	1340			24.17-3 *	31.50-3	236.1-6 *	
		ENDL-82	1040			41.87-3 *	37.00-3	2.306-3 *	
	(N,A)	ENDF/B-5	1340			5.196-3	7.800-3	27.65-6	
	40-ZR- 90	TOTAL	JEF-1	4400	4.931	4.920	103.2	4.002	5.351
			ENDF/B-5	1385	5.045	5.038	105.9	3.886	5.686
			JENDL-1	4090	4.931	4.920	102.1	4.002	5.350 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)				
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.			
40-ZR- 90	ELASTIC	JEF-1	4400	4.831	4.831	99.62	2.309	4.930			
		ENDF/B-5	1385	4.984	4.984	102.7	2.625	5.266			
		JENDL-1	4090	4.831	4.831	99.01	2.309	4.930 *			
	INELAST.	JEF-1	4400			3.286 *	1.687	410.1-3 *			
		ENDF/B-5	1385			2.519 *	610.0-3	410.8-3 *			
		JENDL-1	4090			2.788 *	1.687	410.0-3 *			
	(N,2N)	ENDF/B-5	1385				409.1-3 *	607.0-3	86.71-6 *		
	CAPTURE	JEF-1	4400			100.1-3	88.79-3	270.4-3	40.20-6	8.662-3	
		ENDF/B-5	1385			60.89-3	53.96-3	284.6-3	830.0-6	92.71-3	
		JENDL-1	4090			100.1-3	88.79-3	270.4-3 *	40.20-6	8.662-3 *	
	(N,P)	ENDF/B-5	1385					34.30-3 *	44.00-3	388.2-6 *	
	(N,A)	ENDF/B-5	1385						1.927-3	3.100-3	4.016-6
40-ZR- 91	TOTAL	JEF-1	4401	6.020	5.988	156.2	4.045	5.623			
		ENDF/B-5	1386	6.706	6.592	164.6	3.886	5.844			
		JENDL-1	4091	6.526	6.412	141.3	4.041	5.422 *			
	ELASTIC	JEF-1	4401	4.990	4.990	146.3	2.352	4.966			
		ENDF/B-5	1386	5.707	5.707	154.2	2.034	5.026			
		JENDL-1	4091	5.495	5.495	132.3	2.333	4.771 *			
	INELAST.	JEF-1	4401			2.788 *	129.6-3	641.8-3 *			
		ENDF/B-5	1386			3.683 *	627.4-3	802.5-3 *			
		JENDL-1	4091			3.328 *	1.701	629.2-3 *			
	(N,2N)	JEF-1	4401			940.2-3 *	1.509	2.733-3 *			
		ENDF/B-5	1386			946.8-3 *	1.159	4.527-3 *			
	(N,N+P)	JEF-1	4401			12.10-3 *	15.82-3	2.371-6 *			
	CAPTURE	JEF-1	4401			1.030	913.3-3	5.850	1.238-3	8.663-3	
		ENDF/B-5	1386			998.7-3	885.1-3	5.708	830.0-6	10.65-3	
		JENDL-1	4091			1.031	914.3-3	5.684 *	76.51-6	17.26-3 *	
	(N,P)	JEF-1	4401					20.13-3 *	25.71-3	314.9-6 *	
		ENDF/B-5	1386					24.47-3 *	32.00-3	203.3-6 *	
	(N,A)	JEF-1	4401					8.654-3	9.924-3	149.5-6	
		ENDF/B-5	1386					23.69-3	33.70-3	253.1-6	
	40-ZR- 92	TOTAL	JEF-1	4402	4.459	4.429	116.4	4.079	5.490		
			ENDF/B-5	1387	4.758	4.739	128.2	3.886	5.773		
			JENDL-1	4092	4.459	4.429	115.2	4.079	5.490 *		
		ELASTIC	JEF-1	4402	4.198	4.198	111.2	2.357	4.607		
ENDF/B-5			1387	4.598	4.598	123.2	2.036	4.894			
JENDL-1			4092	4.198	4.198	110.6	2.357	4.607 *			
INELAST.		JEF-1	4402			4.391 *	1.717	868.4-3 *			
		ENDF/B-5	1387			3.526 *	615.4-3	868.4-3 *			
		JENDL-1	4092			3.881 *	1.717	868.3-3 *			
(N,2N)		ENDF/B-5	1387			741.3-3 *	1.206	1.409-3 *			
CAPTURE		JEF-1	4402			261.0-3	231.0-3	776.8-3	70.28-6	11.94-3	
		ENDF/B-5	1387			159.7-3	141.5-3	700.7-3	830.0-6	9.660-3	
		JENDL-1	4092			261.0-3	231.0-3	776.8-3 *	70.28-6	11.94-3 *	
(N,P)		ENDF/B-5	1387					14.68-3 *	20.30-3	38.02-6 *	
(N,A)		ENDF/B-5	1387					5.751-3	9.600-3	19.96-6	
40-ZR- 93		TOTAL	JEF-1	4403	7.658	7.456	213.8	4.124	5.572		
			ENDF/B-5	9232	6.252	6.551	161.7	4.192	5.208		
		ELASTIC	JEF-1	4403	5.872	5.872	173.4	2.387	4.479		
	ENDF/B-5		9232	3.752	3.752	105.3	3.006	4.451			
	INELAST.	JEF-1	4403			3.850 *	41.05-3	1.070 *			
		ENDF/B-5	9232			3.714 *	1.187	731.8-3 *			
	(N,2N)	JEF-1	4403			1.316 *	1.690	5.460-3 *			
	(N,N+A)	JEF-1	4403			499.1-6 *	670.1-6	97.52-9 *			
	(N,N+P)	JEF-1	4403			443.5-6 *	486.2-6	66.38-9 *			
	CAPTURE	JEF-1	4403			1.785	1.584	35.22	1.008-3	14.43-3	
		ENDF/B-5	9232			2.500	2.217	28.05	2.033-3	21.08-3	
	(N,P)	JEF-1	4403					2.283-3 *	1.232-3	7.656-6 *	
	(N,A)	JEF-1	4403						818.8-6	827.1-6	19.28-6
	40-ZR- 94	TOTAL	JEF-1	4404	5.071	5.063	108.5	4.156	5.618		
ENDF/B-5			1388	5.210	5.204	116.8	3.886	5.774			
JENDL-1			4094	5.071	5.063	107.3	4.156	5.618 *			
ELASTIC		JEF-1	4404	4.996	4.996	103.6	2.404	4.709			
		ENDF/B-5	1388	5.154	5.154	111.4	1.899	4.680			
		JENDL-1	4094	4.996	4.996	103.0	2.404	4.709 *			

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.
40-ZR- 94	INELAST.	JEF-1	4404			4.484 *	1.747	899.6-3 *
		ENDF/B-5	1388			4.147 *	639.8-3	1.082 *
		JENDL-1	4094			3.970 *	1.747	899.6-3 *
	(N,2N)	ENDF/B-5	1388			833.4-3 *	1.333	2.197-3 *
	CAPTURE	JEF-1	4404	75.08-3	66.61-3	368.5-3	20.76-6	7.194-3
		ENDF/B-5	1388	55.90-3	49.54-3	391.5-3	830.0-6	9.681-3
		JENDL-1	4094	75.08-3	66.61-3	368.6-3 *	20.76-6	7.222-3 *
	(N,P)	ENDF/B-5	1388			7.400-3 *	10.10-3	9.686-6 *
	(N,A)	ENDF/B-5	1388			2.945-3	4.590-3	4.667-6
	40-ZR- 95	TOTAL	JEF-1	4405	5.592	5.565	165.3	4.203
ENDF/B-5			9234	4.296	4.462	108.6	4.238	5.288
ELASTIC		JEF-1	4405	5.365	5.366	154.7	2.434	4.877
		ENDF/B-5	9234	3.806	3.806	98.32	3.038	4.530
INELAST.		JEF-1	4405			2.830 *	27.02-3	771.4-3 *
		ENDF/B-5	9234			3.446 *	1.198	712.8-3 *
(N,2N)		JEF-1	4405			1.410 *	1.738	7.379-3 *
CAPTURE		JEF-1	4405	226.7-3	200.1-3	6.327	2.007-3	13.58-3
		ENDF/B-5	9234	490.0-3	434.5-3	5.356	2.042-3	38.17-3
(N,P)		JEF-1	4405			374.8-6 *	400.4-6	960.3-9 *
(N,A)	JEF-1	4405			181.9-6	264.9-6	672.9-9	
40-ZR- 96	TOTAL	JEF-1	4406	4.370	4.364	113.8	4.240	5.686
		ENDF/B-5	1389	4.833	4.830	165.5	3.886	6.202
		JENDL-1	4096	5.386	5.382	122.9	4.231	5.712 *
	ELASTIC	JEF-1	4406	4.311	4.311	104.4	2.460	4.993
		ENDF/B-5	1389	4.809	4.809	146.6	1.869	5.690
		JENDL-1	4096	5.353	5.353	114.2	2.460	5.113 *
	INELAST.	JEF-1	4406			2.696 *	38.85-3	669.6-3 *
		ENDF/B-5	1389			2.610 *	671.9-3	498.0-3 *
		JENDL-1	4096			3.215 *	1.775	565.7-3 *
	(N,2N)	JEF-1	4406			1.288 *	1.740	4.350-3 *
ENDF/B-5	1389			913.2-3 *	1.440	3.279-3 *		
CAPTURE	JEF-1	4406	59.23-3	52.41-3	5.403	1.663-3	14.62-3	
	ENDF/B-5	1389	23.98-3	21.26-3	5.335	830.0-6	10.60-3	
	JENDL-1	4096	32.66-3	28.90-3	5.404 *	41.55-6	28.79-3 *	
(N,A)	ENDF/B-5	1389			4.024-3	4.560-3	3.301-6	
41-NB- 93	TOTAL	JEF-1	4413	6.816	6.684	122.7	3.980	5.705
		ENDF/B-5	1189	6.815	6.684	122.7	3.980	5.704
		ENDL-82	1041	6.756	6.624 *	124.1	3.977	5.700 *
		JENDL-1	4193	6.725	6.597	124.7	4.118	5.557 *
		JENDL-2	2411	7.477	7.350	132.2	4.190	5.669
		RCN-3	410093	7.406	7.317 *	130.4	4.165	5.562 *
	ELASTIC	JEF-1	4413	5.664	5.664	107.8	2.297	4.352
		ENDF/B-5	1189	5.664	5.664	107.8	2.297	4.351
		ENDL-82	1041	5.600	5.600 *	108.5	2.200	4.341 *
		JENDL-1	4193	5.574	5.574	110.8	2.380	4.421 *
JENDL-2		2411	6.326	6.325	117.6	2.410	4.550	
RCN-3		410093	6.254	6.254 *	117.1	2.393	4.363 *	
INELAST.	JEF-1	4413			4.607 *	416.0-3	1.326 *	
	ENDF/B-5	1189			4.607 *	416.0-3	1.326 *	
	ENDL-82	1041			4.687 *	360.0-3	1.331 *	
	JENDL-1	4193			4.455 *	1.731	1.098 *	
	JENDL-2	2411			4.144 *	497.1-3	1.082 *	
	RCN-3	410093			4.068 *	57.72-3	1.170 *	
(N,2N)	JEF-1	4413			724.0-3 *	1.215	1.088-3 *	
ENDF/B-5	1189			724.0-3 *	1.215	1.088-3 *		
ENDL-82	1041			773.2-3 *	1.367	1.215-3 *		
JENDL-2	2411			785.6-3 *	1.250	1.174-3 *		
RCN-3	410093			602.7-3 *	1.669	1.948-3 *		
(N,3N)	JEF-1	4413			18.42-3 *		342.6-9 *	
ENDF/B-5	1189			18.42-3 *		342.8-9 *		
ENDL-82	1041			77.37-3 *		1.220-6 *		
JENDL-2	2411			12.62-3 *		203.3-9 *		
(N,N+A)	JEF-1	4413			1.935-3 *	2.500-3	16.33-6 *	
CAPTURE	JEF-1	4413	1.152	1.020	9.456	800.0-6	25.62-3	
	ENDF/B-5	1189	1.151	1.020	9.445	800.0-6	25.37-3	
	ENDL-82	1041	1.155	1.024 *	10.09	800.0-6	25.65-3 *	
	JENDL-1	4193	1.151	1.020	9.489 *	176.1-6	32.74-3 *	
	JENDL-2	2411	1.152	1.024	9.591	6.177-6	31.39-3	
	RCN-3	410093	1.152	1.063 *	8.636 *	818.1-6	27.14-3 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
41-NB- 93	(N,P)	JEF-1	4413			34.56-3	40.00-3	569.3-6	
		ENDF/B-5	1189			34.56-3	40.00-3	569.7-6	
		ENDL-82	1041			34.56-3 *	40.00-3	569.2-6 *	
		JENDL-2	2411			27.16-3	25.00-3	1.173-3	
		RCN-3	410093			13.86-3 *	39.84-3	128.2-6 *	
	(N,A)	JEF-1	4413			6.728-3	9.200-3	60.91-6	
		ENDF/B-5	1189			6.728-3	9.200-3	60.94-6	
		ENDL-82	1041			6.728-3 *	9.200-3	60.91-6 *	
		JENDL-2	2411			6.521-3	8.850-3	271.8-6	
		RCN-3	410093			3.757-3 *	9.995-3	42.50-6 *	
41-NB- 94	TOTAL	JEF-1	4414	17.26	15.70	240.2	4.210	5.257	
		ENDF/B-5	9251	17.15	15.62	237.7	4.213	5.240	
	ELASTIC	JEF-1	4414	3.538	3.537	114.2	3.005	3.699	
		ENDF/B-5	9251	3.538	3.538	112.1	3.019	3.686	
	INELAST.	JEF-1	4414			7.350 *	1.195	1.536 *	
		ENDF/B-5	9251			7.350 *	1.195	1.536 *	
	CAPTURE	JEF-1	4414	13.61	12.14	118.6	2.089-3	12.64-3	
		ENDF/B-5	9251	13.61	12.08	117.3	2.086-3	12.59-3	
	41-NB- 95	TOTAL	JEF-1	4415	6.682	6.482	223.0	4.204	5.675
			ENDF/B-5	9253	5.306	5.565	131.0	4.238	5.288
		ELASTIC	JEF-1	4415	4.907	4.907	147.9	2.434	4.520
			ENDF/B-5	9253	3.806	3.806	103.8	3.111	4.571
INELAST.		JEF-1	4415			3.836 *	51.59-3	1.095 *	
		ENDF/B-5	9253			3.205 *	1.124	642.7-3 *	
(N,2N)		JEF-1	4415			1.183 *	1.714	2.359-3 *	
CAPTURE		JEF-1	4415	1.774	1.575	70.18	3.436-3	52.76-3	
		ENDF/B-5	9253	1.500	1.330	21.93	2.074-3	64.25-3	
42-MO- 0		TOTAL	JEF-1	4420	8.002	7.710	172.4	4.110	5.808
	ENDF/B-5		1321	7.650	7.415	170.6	3.901	5.597	
	ENDL-82		1042	7.987	7.680 *	173.2	3.901	5.694 *	
	JENDL-2		2420	8.037	7.753	177.0	4.192	5.684	
	KEDAK-4		420000	7.710	7.400 *	164.9	4.068	5.730 *	
	RCN-3		420000	7.999	7.749 *	171.4	4.110	5.808 *	
	ELASTIC	JEF-1	4420	5.325	5.325	142.3	2.389	4.655	
		ENDF/B-5	1321	5.000	5.000	136.1	2.050	4.479	
		ENDL-82	1042	5.300	5.300 *	152.3	2.050	4.479 *	
		JENDL-2	2420	5.486	5.485	146.6	2.433	4.620	
		KEDAK-4	420000	5.010	5.010 *	133.5	2.443	4.395 *	
		RCN-3	420000	5.325	5.325 *	141.7	2.389	4.654 *	
		INELAST.	JEF-1	4420			4.026 *	195.7-3	1.130 *
			ENDF/B-5	1321			4.295 *	350.0-3	1.187 *
			ENDL-82	1042			4.295 *	350.0-3	1.187 *
			JENDL-2	2420			4.099 *	585.7-3	1.023 *
	KEDAK-4		420000			4.776 *	578.3-3	1.306 *	
	RCN-3		420000			4.183 *	670.0-3	1.130 *	
	(N,2N)	JEF-1	4420			588.6-3 *	1.006	2.229-3 *	
		ENDF/B-5	1321			902.5-3 *	1.500	2.913-3 *	
		ENDL-82	1042			902.5-3 *	1.500	2.912-3 *	
		JENDL-2	2420			776.1-3 *	1.136	1.655-3 *	
		KEDAK-4	420000			420.4-3 *	1.006	2.212-3 *	
		RCN-3	420000			420.4-3 *	1.006	2.212-3 *	
	(N,3N)	JENDL-2	2420			9.070-3 *		169.6-9 *	
	CAPTURE	JEF-1	4420	2.677	2.385	25.05	1.060-3	21.46-3	
		ENDF/B-5	1321	2.650	2.350	29.05	1.429-3	27.69-3	
		ENDL-82	1042	2.687	2.380 *	15.61	1.318-3	24.82-3 *	
		JENDL-2	2420	2.551	2.268	25.42	87.27-6	37.55-3	
		KEDAK-4	420000	2.700	2.390 *	26.18	2.298-3	25.96-3 *	
		RCN-3	420000	2.677	2.423 *	25.05	1.060-3	21.46-3 *	
	(N,P)	JEF-1	4420			25.40-3 *	25.18-3	1.073-3 *	
		JENDL-2	2420			29.52-3	25.65-3	1.877-3	
		KEDAK-4	420000			17.81-3 *	25.18-3	1.073-3 *	
		RCN-3	420000			17.81-3 *	25.18-3	1.073-3 *	
	(N,A)	JEF-1	4420			15.50-3 *	18.42-3	122.7-6 *	
		JENDL-2	2420			8.136-3	11.36-3	217.6-6	
		KEDAK-4	420000			10.32-3 *	18.42-3	122.2-6 *	
		RCN-3	420000			10.32-3 *	18.42-3	122.2-6 *	
	42-MO- 92	TOTAL	JEF-1	4422	4.707	4.699	102.4	6.811	5.537
			ENDF/B-5	9278	4.707	4.699	102.4	6.811	5.537
			JENDL-2	2421	5.566	5.564	112.8	4.190	5.564
ELASTIC		JEF-1	4422	4.662	4.662	96.92	4.901	4.695	
		ENDF/B-5	9278	4.662	4.662	96.92	4.901	4.695	
		JENDL-2	2421	5.545	5.545	108.2	2.550	5.096	
INELAST.		JEF-1	4422			4.404 *	1.710	813.2-3 *	
		ENDF/B-5	9278			4.404 *	1.710	813.2-3 *	
		JENDL-2	2421			3.263 *	1.491	523.7-3 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAX.W.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
42-MO- 92	(N,2N)	JENDL-2	2421			235.2-3 *	64.30-3	21.48-6 *	
		KEDAK-4	420092			15.88-3 *	111.0-3	7.938-6 *	
	CAPTURE	JEF-1	4422		44.74-3	36.97-3	930.3-3	2.768-3	24.62-3
		ENDF/B-5	9278		44.74-3	36.97-3	930.2-3	2.768-3	24.62-3
		JENDL-2	2421		20.75-3	18.46-3	981.2-3	191.9-6	32.67-3
	(N,P)	JEF-1	4422				154.3-3	162.0-3	3.534-3
		ENDF/B-5	9278				154.3-3	162.0-3	3.534-3
		JENDL-2	2421				110.7-3	61.40-3	10.99-3
		KEDAK-4	420092				73.13-3 *	60.94-3	6.522-3 *
	(N,A)	JEF-1	4422				35.37-3	34.90-3	63.92-6
		ENDF/B-5	9278				35.37-3	34.90-3	63.92-6
		JENDL-2	2421				16.36-3	26.90-3	355.1-6
KEDAK-4		420092				14.25-3 *	28.00-3	92.31-6 *	
42-MO- 94	TOTAL	JEF-1	4424	3.584	3.583	91.61	4.213	5.239	
		ENDF/B-5	9281	3.584	3.583	91.61	4.213	5.239	
		JENDL-2	2422	6.011	6.010	121.4	4.190	5.665	
	ELASTIC	JEF-1	4424	3.568	3.568	87.17	3.028	4.534	
		ENDF/B-5	9281	3.568	3.568	87.17	3.028	4.534	
		JENDL-2	2422	5.998	5.998	115.5	2.413	4.756	
	INELAST.	JEF-1	4424			3.302 *	1.185	658.9-3 *	
		ENDF/B-5	9281			3.302 *	1.185	658.9-3 *	
		JENDL-2	2422			3.755 *	717.1-3	864.4-3 *	
	(N,2N)	JENDL-2	2422			651.2-3 *	1.010	561.4-6 *	
		KEDAK-4	420094			226.8-3 *	820.0-3	438.0-6 *	
	(N,3N)	JENDL-2	2422			420.7-6 *		4.596-9 *	
	CAPTURE	JEF-1	4424	16.04-3	14.21-3	1.103	3.811-3	33.23-3	
		ENDF/B-5	9281	16.04-3	14.21-3	1.103	3.811-3	33.23-3	
		JENDL-2	2422	13.11-3	11.66-3	1.427	177.3-6	42.20-3	
	(N,P)	JENDL-2	2422			28.19-3 *	35.10-3	541.0-6 *	
		KEDAK-4	420094			13.88-3 *	37.76-3	55.40-6 *	
	(N,A)	JENDL-2	2422			8.588-3	15.50-3	374.8-6	
		KEDAK-4	420094			37.02-3 *	59.00-3	439.8-6 *	
	42-MO- 95	TOTAL	JEF-1	4425	19.10	17.44	364.8	4.177	5.659
			ENDF/B-5	9282	16.94	15.30	322.0	4.238	5.288
			JENDL-2	2423	19.58	18.02	367.4	4.190	5.668
		ELASTIC	JEF-1	4425	4.617	4.616	239.8	2.416	4.281
			ENDF/B-5	9282	2.456	2.456	203.9	3.035	4.122
JENDL-2			2423	5.586	5.684	242.9	2.385	4.355	
INELAST.		JEF-1	4425			5.956 *	1.758	1.326 *	
		ENDF/B-5	9282			4.730 *	1.200	1.117 *	
		JENDL-2	2423			4.813 *	327.0-3	1.269 *	
(N,2N)		JENDL-2	2423			947.1-3 *	1.440	2.528-3 *	
		KEDAK-4	420095			528.5-3 *	1.010	4.060-3 *	
(N,3N)		JENDL-2	2423			6.286-3 *		88.89-9 *	
CAPTURE		JEF-1	4425	14.43	12.80	119.0	423.9-6	49.57-3	
		ENDF/B-5	9282	14.48	12.84	113.4	2.732-3	46.72-3	
		JENDL-2	2423	13.99	12.44	118.7	8.643-6	49.49-3	
(N,P)		JENDL-2	2423			20.94-3 *	26.80-3	403.5-6 *	
		KEDAK-4	420095			16.99-3 *	30.96-3	169.5-6 *	
(N,A)		JENDL-2	2423			9.620-3	11.90-3	163.2-6	
		KEDAK-4	420095			11.80-3 *	15.00-3	296.5-6 *	
42-MO- 96		TOTAL	JEF-1	4426	3.931	3.820	163.1	4.259	5.311
			ENDF/B-5	9283	3.931	3.820	163.1	4.259	5.311
			JENDL-2	2424	5.322	5.257	195.1	4.191	5.666
		ELASTIC	JEF-1	4426	2.930	2.930	139.8	3.065	4.540
			ENDF/B-5	9283	2.930	2.930	139.8	3.065	4.540
	JENDL-2		2424	4.727	4.727	172.8	2.413	4.647	
	INELAST.	JEF-1	4426			3.511 *	1.191	731.4-3 *	
		ENDF/B-5	9283			3.511 *	1.191	731.4-3 *	
		JENDL-2	2424			3.951 *	487.8-3	979.8-3 *	
	(N,2N)	JENDL-2	2424			762.7-3 *	1.260	930.9-6 *	
		KEDAK-4	420096			364.2-3 *	1.109	974.5-6 *	
	(N,3N)	JENDL-2	2424			3.411-3 *		59.39-9 *	
	CAPTURE	JEF-1	4426	1.001	888.6-3	19.73	3.066-3	29.25-3	
		ENDF/B-5	9283	1.001	888.6-3	19.73	3.066-3	29.25-3	
		JENDL-2	2424	595.4-3	529.8-3	17.59	56.81-6	36.86-3	
	(N,P)	JENDL-2	2424			14.44-3 *	20.50-3	86.88-6 *	
		KEDAK-4	420096			8.355-3 *	21.02-3	36.64-6 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.	
42-MO- 96	(N,A)	JENDL-2 KEDAK-4	2424 420096			9.511-3 10.02-3 *	9.170-3 18.09-3	483.6-6 91.64-6 *	
42-MO- 97	TOTAL	JEF-1	4427	7.297	7.064	132.9	4.250	5.760	
		ENDF/B-5	9284	6.728	5.482	114.8	4.281	5.351	
		JENDL-2	2426	7.953	7.720	138.4	4.191	5.670	
	ELASTIC	JEF-1	4427	5.113	5.113	110.3	2.464	4.398	
		ENDF/B-5	9284	3.554	3.554	93.58	3.049	4.172	
		JENDL-2	2426	5.853	5.853	115.5	2.418	4.343	
	INELAST.	JEF-1	4427			5.636 *	1.784	1.314 *	
		ENDF/B-5	9284			4.574 *	1.230	1.132 *	
		JENDL-2	2426			4.522 *	310.6-3	1.271 *	
	(N,2N)	JENDL-2	2425			1.022 *	1.440	4.179-3 *	
		KEDAK-4	420097			683.8-3 *	1.205	6.168-3 *	
	(N,3N)	JENDL-2	2426			14.78-3 *		324.4-9 *	
	CAPTURE	JEF-1	4427	2.183	1.935	16.96	153.7-6	45.19-3	
		ENDF/B-5	9284	2.175	1.928	16.64	2.444-3	43.96-3	
JENDL-2		2426	2.100	1.867	17.25	7.816-6	48.68-3		
(N,P)	JENDL-2	2426			11.38-3 *	15.90-3	63.28-6 *		
	KEDAK-4	420097			5.252-3 *	19.50-3	13.92-6 *		
(N,A)	JENDL-2	2426			3.959-3 *	7.100-3	52.34-6		
	KEDAK-4	420097			1.543-3 *	2.600-3	18.13-6 *		
42-MO- 98	TOTAL	JEF-1	4428	6.074	6.057	132.8	4.281	5.797	
		ENDF/B-5	9285	3.665	3.652	109.4	4.303	5.378	
		JENDL-2	2426	5.772	5.757	134.8	4.191	5.664	
	ELASTIC	JEF-1	4428	5.916	5.916	119.2	2.475	4.636	
		ENDF/B-5	9285	3.538	3.538	98.53	3.096	4.462	
		JENDL-2	2426	5.642	5.642	123.4	2.415	4.589	
	INELAST.	JEF-1	4428			3.945 *	78.43-3	1.129 *	
		ENDF/B-5	9285			3.918 *	1.206	892.6-3 *	
		JENDL-2	2426			3.881 *	338.1-3	1.040 *	
	(N,2N)	JEF-1	4428			1.221 *	1.722	2.353-3 *	
		JENDL-2	2426			947.8-3 *	1.420	1.841-3 *	
	KEDAK-4	420098				543.4-3 *	1.309	2.266-3 *	
		JENDL-2	2426			23.10-3 *		414.7-9 *	
	CAPTURE	JEF-1	4428	158.2-3	140.7-3	8.503	1.855-3	27.93-3	
ENDF/B-5		9285	127.4-3	113.0-3	6.923	1.417-3	19.28-3		
JENDL-2		2426	130.0-3	115.7-3	6.562	83.71-6	31.71-3		
(N,P)	JEF-1	4428			1.977-3 *	1.886-3	1.930-6 *		
	JENDL-2	2426			9.144-3 *	12.30-3	11.61-6 *		
KEDAK-4	420098				1.470-3 *	6.418-3	2.133-6 *		
	JEF-1	4428			883.8-6	875.4-6	2.435-6		
JENDL-2	2426				4.496-3	5.530-3	68.55-6		
	KEDAK-4	420098			3.134-3 *	7.793-3	15.60-6 *		
42-MO- 99	TOTAL	JEF-1	4429	5.612	5.437	125.1	4.325	5.387	
		ENDF/B-5	9286	5.612	5.862	129.3	4.325	5.389	
	ELASTIC	JEF-1	4429	3.912	3.912	91.20	3.077	3.882	
		ENDF/B-5	9286	3.912	3.912	91.12	3.075	3.882	
	INELAST.	JEF-1	4429			6.190 *	1.248	1.432 *	
		ENDF/B-5	9286			6.190 *	1.248	1.432 *	
	CAPTURE	JEF-1	4429	1.700	1.507	27.38	2.046-3	67.61-3	
		ENDF/B-5	9286	1.700	1.507	27.37	2.045-3	67.59-3	
	42-MO-100	TOTAL	JEF-1	4421	5.983	5.963	136.3	4.344	5.853
			ENDF/B-5	9287	3.668	3.646	121.1	4.348	5.421
			JENDL-2	2427	5.499	5.477	134.4	4.191	5.668
		ELASTIC	JEF-1	4421	5.802	5.802	126.5	2.508	4.499
			ENDF/B-5	9287	3.469	3.469	113.0	3.198	4.424
			JENDL-2	2427	5.300	5.300	125.1	2.429	4.450
INELAST.		JEF-1	4421			4.489 *	37.51-3	1.335 *	
		ENDF/B-5	9287			4.120 *	1.149	980.0-3 *	
		JENDL-2	2427			4.471 *	444.5-3	1.187 *	
(N,2N)		JEF-1	4421			1.315 *	1.794	3.228-3 *	
		JENDL-2	2427			860.4-3 *	1.310	2.249-3 *	
KEDAK-4		420100				625.0-3 *	1.529	2.686-3 *	
		JENDL-2	2427			6.110-3 *		167.2-9 *	
CAPTURE		JEF-1	4421	181.2-3	160.8-3	4.061	1.630-3	14.55-3	
	ENDF/B-5	9287	199.0-3	176.6-3	3.897	1.385-3	13.59-3		
	JENDL-2	2427	199.0-3	177.0-3	3.920	95.09-6	26.52-3		

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
42-MO-100	(N,P)	JEF-1	4421			161.1-6 *	69.23-6	23.95-9 *	
		JENDL-2	2427			5.306-3 *	7.500-3	5.041-6 *	
		KEDAK-4	420100			735.0-6 *	3.900-3	681.6-9 *	
	(N,A)	JEF-1	4421			205.8-6	186.3-6	275.1-9	
		JENDL-2	2427			2.491-3	3.400-3	6.476-6	
		KEDAK-4	420100			3.252-3 *	12.50-3	7.078-6 *	
43-TC-99	TOTAL	JEF-1	4439	24.02	22.35	496.3	4.254	5.887	
		ENDF/B-5	1308	26.31	24.16	497.4	4.125	6.221	
		RCN-3	430099	24.02	22.27	495.1	4.251	5.886 *	
	ELASTIC	JEF-1	4439	5.018	5.035	130.6	2.502	4.359	
		ENDF/B-5	1308	6.817	6.814	139.9	2.100	4.777	
		RCN-3	430099	5.018	5.035 *	129.9	2.502	4.359 *	
	INELAST.	JEF-1	4439			5.536 *	26.70-3	1.439 *	
		ENDF/B-5	1308			5.881 *	599.4-3	1.360 *	
		RCN-3	430099			5.534 *	26.70-3	1.439 *	
	(N,2N)	JEF-1	4439			1.174 *	1.697	2.162-3 *	
		ENDF/B-5	1308			944.3-3 *	1.425	1.456-3 *	
		RCN-3	430099			636.4-3 *	1.697	2.122-3 *	
	CAPTURE	JEF-1	4439	19.00	17.32	359.0	1.019-3	86.00-3	
		ENDF/B-5	1308	19.50	17.35	350.6	622.8-6	69.95-3	
		RCN-3	430099	19.00	17.23	359.0	1.019-3	86.00-3 *	
	(N,P)	JEF-1	4439			10.64-3 *	15.37-3	151.0-6 *	
		RCN-3	430099			7.120-3 *	15.37-3	150.7-6 *	
	(N,D)	JEF-1	4439			3.806-3 *	1.434-3	1.815-6 *	
		RCN-3	430099			370.6-6 *	1.434-3	1.720-6 *	
	(N,T)	JEF-1	4439			44.73-6 *	28.90-6	19.30-9 *	
		RCN-3	430099			6.583-6 *	28.90-6	17.49-9 *	
	(N,HE-3)	JEF-1	4439			6.773-6 *	3.321-6	1.577-9 *	
		RCN-3	430099			737.2-9 *	3.321-6	1.316-9 *	
	(N,A)	JEF-1	4439			4.617-3	6.775-3	37.42-6	
RCN-3		430099			2.391-3 *	6.775-3	37.25-6 *		
44-RU-96	TOTAL	JEF-1	4447	6.264	7.505	157.4	6.871	5.898	
		ENDF/B-5	9325	6.264	7.505	157.4	6.871	5.897	
	ELASTIC	JEF-1	4447	6.014	6.014	139.6	5.110	4.741	
		ENDF/B-5	9325	6.014	6.014	139.6	5.110	4.741	
	INELAST.	JEF-1	4447			4.867 *	1.760	1.014 *	
		ENDF/B-5	9325			4.867 *	1.760	1.014 *	
	CAPTURE	JEF-1	4447	249.9-3	1.491	12.94	1.400-3	141.7-3	
		ENDF/B-5	9325	249.9-3	1.491	12.94	1.400-3	141.7-3	
	44-RU-98	TOTAL	JEF-1	4448	14.01	53.72	159.2	6.582	5.928
			ENDF/B-5	9327	14.01	53.72	159.2	6.582	5.928
		ELASTIC	JEF-1	4448	6.014	6.014	140.6	5.000	4.829
			ENDF/B-5	9327	6.014	6.014	140.6	5.000	4.829
INELAST.		JEF-1	4448			4.875 *	1.580	1.073 *	
		ENDF/B-5	9327			4.875 *	1.580	1.073 *	
CAPTURE		JEF-1	4448	7.998	47.70	13.81	2.380-3	25.81-3	
		ENDF/B-5	9327	7.998	47.70	13.81	2.380-3	25.81-3	
44-RU-99		TOTAL	JEF-1	4449	8.586	8.007	245.5	4.322	5.405
			ENDF/B-5	9328	8.521	7.966	244.7	4.325	5.389
		ELASTIC	JEF-1	4449	3.509	3.508	97.10	3.100	3.956
			ENDF/B-5	9328	3.510	3.509	97.09	3.104	3.952
	INELAST.	JEF-1	4449			5.945 *	1.219	1.373 *	
		ENDF/B-5	9328			5.945 *	1.219	1.373 *	
	CAPTURE	JEF-1	4449	5.046	4.456	137.7	2.514-3	60.49-3	
		ENDF/B-5	9328	5.012	4.456	137.4	2.510-3	60.30-3	
	44-RU-100	TOTAL	JEF-1	4440	9.777	9.105	112.6	4.345	5.424
			ENDF/B-5	9329	9.714	9.057	110.4	4.348	5.409
		ELASTIC	JEF-1	4440	3.914	3.914	102.2	3.135	4.496
			ENDF/B-5	9329	3.914	3.914	98.18	3.137	4.489
INELAST.		JEF-1	4440			3.894 *	1.208	853.7-3 *	
		ENDF/B-5	9329			3.894 *	1.208	853.7-3 *	
CAPTURE		JEF-1	4440	5.834	5.166	8.278	2.529-3	56.93-3	
		ENDF/B-5	9329	5.800	5.143	8.176	2.531-3	56.77-3	
44-RU-101		TOTAL	JEF-1	4441	6.709	6.357	196.8	4.371	5.437
			ENDF/B-5	9330	6.701	6.351	195.3	4.371	5.437

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.
44-RU-101	ELASTIC	JEF-1 ENDF/B-5	4441 9330	3.591 3.591	3.590 3.591	89.05 88.32	3.128 3.126	3.846 3.846
	INELAST.	JEF-1 ENDF/B-5	4441 9330			6.364 * 6.366 *	1.242 1.242	1.513 * 1.514 *
	CAPTURE	JEF-1 ENDF/B-5	4441 9330	3.118 3.110	2.767 2.760	101.4 100.5	3.348-3 3.348-3	75.96-3 75.94-3
44-RU-102	TOTAL	JEF-1 ENDF/B-5	4442 9331	5.256 5.249	5.108 5.102	97.31 96.56	4.394 4.394	5.450 5.452
	ELASTIC	JEF-1 ENDF/B-5	4442 9331	3.949 3.949	3.949 3.949	90.08 88.50	3.282 3.280	4.460 4.459
	INELAST.	JEF-1 ENDF/B-5	4442 9331			3.988 * 3.988 *	1.113 1.113	928.6-3 * 928.6-3 *
	CAPTURE	JEF-1 ENDF/B-5	4442 9331	1.307 1.300	1.158 1.153	3.217 3.611	1.579-3 1.580-3	59.36-3 59.37-3
44-RU-103	TOTAL	JEF-1 ENDF/B-5	4443 9332	71.88 11.72	64.52 11.96	721.8 178.1	4.355 4.417	5.788 5.464
	ELASTIC	JEF-1 ENDF/B-5	4443 9332	5.044 4.017	5.034 4.017	115.9 96.47	2.460 3.217	3.619 3.981
	INELAST.	JEF-1 ENDF/B-5	4443 9332			9.054 * 6.191 *	21.57-3 1.199	2.008 * 1.432 *
	(N,2N)	JEF-1	4443			1.814 *	1.868	18.30-3 *
	CAPTURE	JEF-1 ENDF/B-5	4443 9332	66.84 7.700	59.48 6.827	594.9 70.33	2.112-3 2.340-3	141.0-3 49.97-3
	(N,P)	JEF-1	4443			593.0-6 *	484.2-6	1.764-6 *
	(N,A)	JEF-1	4443			234.7-6	228.9-6	1.415-6
44-RU-104	TOTAL	JEF-1 ENDF/B-5	4444 9333	4.208 4.206	4.160 4.156	108.4 108.4	4.439 4.437	5.468 5.473
	ELASTIC	JEF-1 ENDF/B-5	4444 9333	3.771 3.768	3.771 3.768	97.70 97.70	3.190 3.190	4.571 4.571
	INELAST.	JEF-1 ENDF/B-5	4444 9333			4.130 * 4.130 *	1.250 1.250	859.8-3 * 859.9-3 *
	CAPTURE	JEF-1 ENDF/B-5	4444 9333	437.5-3 436.9-3	389.5-3 387.5-3	6.582 6.577	908.2-6 908.6-6	31.58-3 31.58-3
44-RU-105	TOTAL	JEF-1 ENDF/B-5	4445 9334	4.269 4.269	4.261 4.375	102.7 102.9	4.461 4.459	5.468 5.469
	ELASTIC	JEF-1 ENDF/B-5	4445 9334	4.069 4.069	4.069 4.069	87.91 87.85	3.101 3.101	3.850 3.851
	INELAST.	JEF-1 ENDF/B-5	4445 9334			7.331 * 7.332 *	1.359 1.359	1.573 * 1.573 *
	CAPTURE	JEF-1 ENDF/B-5	4445 9334	200.0-3 200.0-3	177.3-3 177.3-3	7.354 7.351	2.144-3 2.144-3	39.46-3 39.44-3
44-RU-106	TOTAL	JEF-1 ENDF/B-5	4446 9335	4.241 4.241	4.247 4.330	95.56 95.87	4.483 4.479	5.484 5.488
	ELASTIC	JEF-1 ENDF/B-5	4446 9335	4.095 4.095	4.095 4.095	88.43 88.35	3.127 3.126	4.399 4.400
	INELAST.	JEF-1 ENDF/B-5	4446 9335			4.931 * 4.931 *	1.355 1.355	1.068 * 1.068 *
	CAPTURE	JEF-1 ENDF/B-5	4446 9335	146.0-3 146.0-3	129.4-3 129.4-3	2.093 2.093	1.630-3 1.630-3	11.05-3 11.05-3
45-RH-103	TOTAL	JEF-1 ENDF/B-5 RCN-3	4453 1310 450103	151.6 151.0 151.6	138.5 137.3 137.9	1.174+3 1.160+3 1.172+3 *	4.351 4.253 4.349	5.937 5.961 * 5.936 *
	ELASTIC	JEF-1 ENDF/B-5 RCN-3	4453 1310 450103	4.141 4.661 4.141	4.139 4.640 4.140 *	117.0 118.6 116.3	2.570 2.925 2.570	4.349 4.057 * 4.349 *
	INELAST.	JEF-1 ENDF/B-5 RCN-3	4453 1310 450103			5.530 * 7.004 * 6.531 *	45.19-3 532.0-3 45.19-3	1.502 * 1.813 * 1.503 *
	(N,2N)	JEF-1 ENDF/B-5 RCN-3	4453 1310 450103			1.055 * 444.7-3 * 552.7-3 *	1.704 795.5-3 1.704	1.437-3 * 512.0-6 * 1.398-3 *
	CAPTURE	JEF-1 ENDF/B-5 RCN-3	4453 1310 450103	147.4 146.3 147.4	134.4 132.7 133.8	1.050+3 1.034+3 1.050+3 *	752.6-6 840.8-6 752.6-6	83.18-3 82.91-3 * 83.18-3 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
45-RH-103	(N,P)	JEF-1	4453			12.31-3	17.49-3	190.6-6	
		RCN-3	450103			8.413-3 *	17.49-3	190.2-6 *	
	(N,D)	JEF-1	4453			2.261-3 *	1.633-3	2.150-6 *	
		RCN-3	450103			404.1-6 *	1.633-3	2.061-6 *	
	(N,T)	JEF-1	4453			57.90-6 *	30.80-6	20.80-9 *	
RCN-3	450103				7.005-6 *	30.80-6	18.56-9 *		
(N,HE-3)	JEF-1	4453			9.301-6 *	3.571-6	1.779-9 *		
	RCN-3	450103			795.1-9 *	3.571-6	1.498-9 *		
(N,A)	JEF-1	4453			7.641-3	10.09-3	44.21-6		
	RCN-3	450103			3.185-3 *	10.09-3	43.91-6 *		
45-RH-105	TOTAL	JEF-1	4455	15.00+3	11.11+3	15.88+3	4.461	5.468	
		ENDF/B-5	9355	16.00+3	11.12+3	15.87+3	4.459	5.469	
	ELASTIC	JEF-1	4455	4.069	4.069	95.51	3.146	4.400	
		ENDF/B-5	9355	4.069	4.069	95.44	3.146	4.401	
	INELAST.	JEF-1	4455			4.685 *	1.315	932.8-3 *	
		ENDF/B-5	9355			4.685 *	1.315	932.7-3 *	
	CAPTURE	JEF-1	4455	16.00+3	11.10+3	15.78+3	1.887-3	117.3-3	
		ENDF/B-5	9355	16.00+3	11.11+3	15.76+3	1.887-3	117.3-3	
	46-PD-102	TOTAL	JEF-1	4462	10.56	34.38	147.0	6.893	6.059
			ENDF/B-5	9379	10.56	34.38	147.0	6.893	6.056
			RCN-3	460102	9.359	9.013 *	151.4	4.359	5.761 *
		ELASTIC	JEF-1	4462	5.760	5.760	128.3	5.280	4.975
ENDF/B-5			9379	5.760	5.760	128.3	5.280	4.975	
RCN-3			460102	5.934	5.912 *	132.4	2.195	4.634 *	
INELAST.		JEF-1	4462			4.879 *	1.610	1.036 *	
		ENDF/B-5	9379			4.879 *	1.610	1.036 *	
		RCN-3	460102			4.482 *	255.5-3	1.093 *	
CAPTURE		JEF-1	4462	4.799	28.62	13.86	3.190-3	47.02-3	
		ENDF/B-5	9379	4.799	28.62	13.86	3.190-3	47.02-3	
		RCN-3	460102	3.425	3.101 *	14.01	927.4-6	33.02-3 *	
46-PD-104	TOTAL	JEF-1	4464	5.236	5.204	162.0	4.321	5.782	
		ENDF/B-5	9381	4.090	4.046	133.0	4.437	5.461	
		JENDL-1	4604	5.395	5.342	149.3	4.475	5.909 *	
		RCN-3	460104	5.236	5.208 *	161.4	4.321	5.782 *	
	ELASTIC	JEF-1	4464	4.921	4.923	142.4	2.223	4.592	
		ENDF/B-5	9381	3.702	3.702	110.2	3.161	4.506	
		JENDL-1	4604	4.917	4.917	125.1	2.618	4.791 *	
		RCN-3	460104	4.921	4.923 *	142.1	2.223	4.591 *	
	INELAST.	JEF-1	4464			4.503 *	112.8-3	1.143 *	
		ENDF/B-5	9381			3.959 *	1.277	841.4-3 *	
		JENDL-1	4604			4.459 *	1.857	1.026 *	
		RCN-3	460104			4.498 *	112.8-3	1.144 *	
	(N,2N)	JEF-1	4464			1.129 *	1.937	909.0-6 *	
		RCN-3	460104			505.4-3 *	1.937	862.6-6 *	
	CAPTURE	JEF-1	4464	315.1-3	280.4-3	14.10	1.096-3	45.65-3	
		ENDF/B-5	9381	387.8-3	344.3-3	18.64	2.320-3	101.7-3	
		JENDL-1	4604	477.9-3	424.9-3	19.79	333.7-6	86.78-3 *	
		RCN-3	460104	315.1-3	285.0-3 *	14.25	1.096-3	45.67-3 *	
	(N,P)	JEF-1	4464			21.72-3 *	31.97-3	113.3-6 *	
		RCN-3	460104			10.01-3 *	31.97-3	123.9-6 *	
	(N,D)	JEF-1	4464			22.94-3 *	3.642-3	2.610-6 *	
		RCN-3	460104			864.2-6 *	3.642-3	12.53-6 *	
	(N,T)	JEF-1	4464			84.92-6 *	33.47-6	12.95-9 *	
		RCN-3	460104			9.570-6 *	33.47-6	485.6-9 *	
(N,HE-3)	JEF-1	4464			7.547-6 *	3.506-6	1.951-9 *		
	RCN-3	460104			846.1-9 *	3.506-6	17.32-9 *		
(N,A)	JEF-1	4464			8.589-3	11.48-3	46.14-6		
	RCN-3	460104			3.557-3 *	11.48-3	46.54-6 *		
46-PD-105	TOTAL	JEF-1	4465	27.13	24.55	207.2	4.404	5.776	
		ENDF/B-5	9382	17.82	16.23	180.3	4.459	5.834	
		RCN-3	460105	27.96	31.87	210.3	4.337	5.790 *	
	ELASTIC	JEF-1	4465	5.231	5.228	105.3	2.524	3.835	
		ENDF/B-5	9382	3.811	3.811	82.28	3.150	4.366	
		RCN-3	460105	5.929	5.918 *	104.4	2.238	4.006 *	
	INELAST.	JEF-1	4465			6.124 *	43.60-3	1.794 *	
		ENDF/B-5	9382			5.629 *	1.297	1.327 *	
		RCN-3	460105			5.700 *		1.672 *	
	(N,2N)	JEF-1	4465			1.528 *	1.832	7.874-3 *	
		RCN-3	460105			1.162 *	2.054	10.13-3 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
46-PD-105	CAPTURE	JEF-1	4465	21.90	19.32	94.22	2.258-3	132.2-3	
		ENDF/B-5	9382	14.01	12.42	92.20	4.422-3	135.2-3	
		RCN-3	460105	22.04	25.95	98.95	951.7-6	101.6-3 *	
	(N,P)	RCN-3	460105			14.02-3 *	31.38-3	307.9-6 *	
	(N,D)	RCN-3	460105			754.3-6 *	2.819-3	12.00-6 *	
	(N,T)	RCN-3	460105			7.650-6 *	31.36-6	165.2-9 *	
	(N,HE-3)	RCN-3	460105			823.7-9 *	3.239-6	26.66-9 *	
(N,A)	RCN-3	460105			4.556-3 *	9.712-3	100.6-6 *		
46-PD-106	TOTAL	JEF-1	4466	5.177	5.145	140.6	4.340	5.791	
		ENDF/B-5	9383	3.969	3.942	124.2	4.479	5.489	
		RCN-3	460106	5.174	5.143 *	139.4	4.340	5.791 *	
	ELASTIC	JEF-1	4466	4.875	4.871	128.6	2.252	4.542	
		ENDF/B-5	9383	3.730	3.730	111.6	3.370	4.488	
		RCN-3	460106	4.874	4.874 *	128.0	2.252	4.541 *	
	INELAST.	JEF-1	4466			4.534 *	41.72-3	1.194 *	
		ENDF/B-5	9383			3.899 *	1.109	914.9-3 *	
		RCN-3	460106			4.539 *	41.72-3	1.195 *	
	(N,2N)	JEF-1	4466			1.223 *	2.018	1.414-3 *	
		RCN-3	460106			616.9-3 *	2.018	1.368-3 *	
	CAPTURE	JEF-1	4466			300.4-3	270.7-3	6.248	973.2-6
		ENDF/B-5	9383			239.0-3	211.6-3	8.656	3.319-3
		RCN-3	460106			300.4-3	269.4-3 *	6.247 *	973.2-6
	(N,P)	JEF-1	4466				14.91-3 *	20.03-3	45.12-6 *
		RCN-3	460106				5.504-3 *	20.03-3	56.68-6 *
	(N,D)	JEF-1	4466				5.719-3 *	2.410-3	1.428-6 *
		RCN-3	460106				588.6-6 *	2.410-3	12.85-6 *
	(N,T)	JEF-1	4466				92.68-6 *	28.60-6	10.60-9 *
		RCN-3	460106				7.191-6 *	28.60-6	224.6-9 *
	(N,HE-3)	JEF-1	4466				6.804-6 *	2.997-6	1.327-9 *
		RCN-3	460106				761.9-9 *	2.997-6	24.64-9 *
	(N,A)	JEF-1	4466				5.611-3	4.873-3	15.16-6 *
		RCN-3	460106				1.369-3 *	4.873-3	14.95-6 *
46-PD-107	TOTAL	JEF-1	4467	9.702	9.505	246.7	4.353	5.808	
		ENDF/B-5	9384	14.12	14.23	169.4	4.499	5.493	
		RCN-3	460107	7.024	6.883 *	226.2	4.353	5.809 *	
	ELASTIC	JEF-1	4467	7.843	7.847	135.4	2.266	3.993	
		ENDF/B-5	9384	4.121	4.121	81.79	3.270	3.706	
		RCN-3	460107	5.166	5.169 *	114.8	2.266	3.993 *	
	INELAST.	JEF-1	4467			5.696 *		1.681 *	
		ENDF/B-5	9384			6.406 *	1.226	1.654 *	
		RCN-3	460107			5.698 *		1.681 *	
	(N,2N)	JEF-1	4467			1.946 *	2.066	17.54-3 *	
		RCN-3	460107			1.352 *	2.065	17.49-3 *	
	CAPTURE	JEF-1	4467			1.858	1.657	103.7	965.4-6
		ENDF/B-5	9384			10.00	8.867	76.43	4.500-3
		RCN-3	460107			1.858	1.714 *	104.3	965.4-6
	(N,P)	JEF-1	4467				10.31-3 *	15.44-3	100.0-6 *
		RCN-3	460107				5.882-3 *	15.44-3	102.0-6 *
	(N,D)	JEF-1	4467				3.943-3 *	1.844-3	1.365-6 *
		RCN-3	460107				528.5-6 *	1.844-3	13.00-6 *
	(N,T)	JEF-1	4467				59.84-6 *	26.90-6	15.48-9 *
		RCN-3	460107				6.560-6 *	26.90-6	141.5-9 *
	(N,HE-3)	JEF-1	4467				7.342-6 *	2.778-6	1.085-9 *
		RCN-3	460107				783.3-9 *	2.778-6	39.23-9 *
	(N,A)	JEF-1	4467				2.262-3	3.383-3	23.13-6
		RCN-3	460107				1.330-3 *	3.383-3	23.45-6 *
46-PD-108	TOTAL	JEF-1	4468	11.41	12.50	708.7	4.362	5.803	
		ENDF/B-5	9386	14.55	13.17	478.6	4.519	5.499	
		JENDL-1	4608	14.72	13.35	667.7	4.557	5.916 *	
		RCN-3	460108	11.41	12.47	707.5	4.362	5.804 *	
	ELASTIC	JEF-1	4468	4.049	3.786	514.8	2.281	4.478	
		ENDF/B-5	9386	2.325	2.324	247.8	3.184	4.417	
		JENDL-1	4608	2.490	2.489	407.2	2.683	4.703 *	
		RCN-3	460108	4.049	3.786 *	514.2	2.281	4.477 *	
	INELAST.	JEF-1	4468			4.714 *	15.70-3	1.281 *	
		ENDF/B-5	9386			4.508 *	1.335	1.008 *	
		JENDL-1	4608			4.880 *	1.874	1.152 *	
		RCN-3	460108			4.718 *	15.70-3	1.282 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.
46-PD-108	(N,2N)	JEF-1	4468			1.318 *	2.054	2.040-3 *
		RCN-3	460108			711.2-3 *	2.054	1.994-3 *
	CAPTURE	JEF-1	4468	7.360	8.720	187.9	878.5-6	42.59-3
		ENDF/B-5	9386	12.22	10.84	226.3	2.830-3	66.93-3
		JENDL-1	4608	12.23	10.85	255.5	206.1-6	57.40-3 *
		RCN-3	460108	7.360	8.688 *	187.9	878.5-6	42.60-3 *
	(N,P)	JEF-1	4468			9.566-3 *	7.032-3	10.77-6 *
		RCN-3	460108			1.771-3 *	7.032-3	16.56-6 *
	(N,D)	JEF-1	4468			3.155-3 *	1.624-3	874.5-9 *
		RCN-3	460108			395.9-6 *	1.624-3	8.519-6 *
	(N,T)	JEF-1	4468			59.03-6 *	24.60-6	8.182-9 *
		RCN-3	460108			8.471-6 *	24.60-6	633.5-9 *
	(N,HE-3)	JEF-1	4468			5.959-6 *	2.512-6	
RCN-3		460108			863.9-9 *	2.512-6	63.73-9 *	
(N,A)	JEF-1	4468			2.769-3	2.196-3	6.103-6	
	RCN-3	460108			597.7-6 *	2.196-3	6.996-6 *	
46-PD-110	TOTAL	JEF-1	4460	5.287	5.335	102.4	4.396	5.801
		ENDF/B-5	9389	4.417	4.531	101.6	4.557	5.507
		JENDL-1	4610	5.610	5.602	117.5	4.589	5.906 *
		RCN-3	460110	5.287	5.336 *	101.4	4.396	5.803 *
	ELASTIC	JEF-1	4460	5.058	5.058	93.72	2.309	4.421
		ENDF/B-5	9389	4.197	4.197	88.63	3.141	4.359
		JENDL-1	4610	5.390	5.390	109.4	2.711	4.646 *
		RCN-3	460110	5.058	5.058 *	93.18	2.309	4.421 *
	INELAST.	JEF-1	4460			4.859 *	654.3-6	1.356 *
		ENDF/B-5	9389			4.929 *	1.414	1.113 *
		JENDL-1	4610			5.148 *	1.879	1.228 *
		RCN-3	460110			4.853 *	654.3-6	1.357 *
	(N,2N)	JEF-1	4460			1.418 *	2.079	2.985-3 *
	CAPTURE	JEF-1	4460	229.6-3	277.0-3	2.448	903.7-6	21.44-3
		ENDF/B-5	9389	220.0-3	195.2-3	7.499	2.511-3	29.56-3
JENDL-1		4610	220.0-3	195.1-3	2.857 *	51.15-6	26.51-3 *	
RCN-3		460110	229.6-3	277.7-3 *	2.515 *	903.7-6	21.45-3 *	
(N,P)	JEF-1	4460			6.055-3 *	3.710-3	4.229-6 *	
(N,D)	JEF-1	4460			2.432-3 *	1.112-3	528.1-9 *	
(N,T)	JEF-1	4460			49.35-6 *	21.28-6	6.868-9 *	
(N,HE-3)	JEF-1	4460			5.543-6 *	2.170-6		
(N,A)	JEF-1	4460			1.800-3	1.177-3	2.583-6	
47-AG-107	TOTAL	JEF-1	4477	42.68	38.50	251.1	4.257	5.991
		ENDF/B-5	1371	42.47	38.29	250.2	4.268	5.988
		ENDL-82	1043	42.92	38.85	254.7	4.384	6.007 *
		JENDL-1	4707	41.36	37.25	223.0	4.539	5.918 *
		RCN-3	470107	44.82	40.52	230.3	4.326	5.632 *
	ELASTIC	JEF-1	4477	5.622	5.621	128.1	2.710	4.313
		ENDF/B-5	1371	5.622	5.622	128.0	2.710	4.308
		ENDL-82	1043	5.622	5.622 *	128.6	2.550	4.324 *
		JENDL-1	4707	4.158	4.158	105.0	2.668	4.440 *
		RCN-3	470107	7.207	7.200 *	117.7	2.530	3.885 *
	INELAST.	JEF-1	4477			5.737 *	14.19-3	1.579 *
		ENDF/B-5	1371			5.737 *	14.19-3	1.580 *
		ENDL-82	1043			5.899 *	446.2-3	1.570 *
		JENDL-1	4707			5.609 *	1.871	1.355 *
		RCN-3	470107			5.810 *	62.00-3	1.600 *
	(N,2N)	JEF-1	4477			888.4-3 *	1.490	1.084-3 *
		ENDF/B-5	1371			888.4-3 *	1.490	1.085-3 *
		ENDL-82	1043			853.1-3 *	1.344	1.303-3 *
		RCN-3	470107			518.0-3 *	1.708	1.139-3 *
	(N,3N)	ENDL-82	1043			3.060-3 *		37.06-9 *
	CAPTURE	JEF-1	4477	36.86	32.83	115.8	879.5-9	99.62-3
		ENDF/B-5	1371	36.85	32.67	115.4	875.9-9	98.67-3
		ENDL-82	1043	37.30	33.03	119.2	1.013-3	112.5-3 *
		JENDL-1	4707	37.20	33.00	112.3	179.4-6	115.5-3 *
		RCN-3	470107	37.62	33.32	105.3	1.056-3	145.1-3 *
	(N,P)	JEF-1	4477			10.89-3	15.92-3	76.96-6
		ENDF/B-5	1371			10.89-3	15.92-3	77.01-6
ENDL-82		1043			10.84-3 *	15.37-3	76.13-6 *	
RCN-3		470107			5.504-3 *	17.80-3	38.40-6 *	
(N,D)	JEF-1	4477			9.973-3 *	14.30-3	8.369-6 *	
	ENDF/B-5	1371			9.973-3 *	14.30-3	8.376-6 *	
	ENDL-82	1043			10.02-3 *	14.82-3	8.626-6 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
47-AG-107	(N,T)	JEF-1	4477			1.470-3 *	1.700-3	310.3-9 *	
		ENDF/B-5	1371			1.470-3 *	1.700-3	310.5-9 *	
		ENDL-82	1043			1.485-3 *	1.926-3	314.9-9 *	
	(N,A)	JEF-1	4477			18.59-3	23.89-3	79.92-6	
		ENDF/B-5	1371			18.59-3	23.89-3	79.93-6	
		ENDL-82	1043			8.235-3 *	10.60-3	38.95-6 *	
RCN-3	470107			1.852-3 *	6.861-3	8.209-6 *			
47-AG-109	TOTAL	JEF-1	4479	91.57	82.54	1.697+3	4.324	5.652	
		ENDF/B-5	1373	93.52	83.44	1.713+3	4.265	5.923	
		ENDL-82	1044	98.96	88.59	1.819+3	4.366	5.880 *	
		RCN-3	470109	91.57	82.14	1.696+3 *	4.324	5.650 *	
	ELASTIC	JEF-1	4479	1.682	1.997	233.2	2.530	3.861	
		ENDF/B-5	1373	1.681	1.672	244.9	2.810	4.209	
		ENDL-82	1044	5.600	5.600 *	263.8	2.550	4.235 *	
		RCN-3	470109	1.682	1.996 *	232.5	2.530	3.861 *	
	INELAST.	JEF-1	4479			5.898 *	27.00-3	1.657 *	
		ENDF/B-5	1373			5.840 *	48.14-3	1.605 *	
		ENDL-82	1044			5.920 *	446.2-3	1.581 *	
		RCN-3	470109			5.902 *	27.00-3	1.659 *	
	(N,2N)	JEF-1	4479			1.089 *	1.742	1.752-3 *	
		ENDF/B-5	1373			847.5-3 *	1.380	1.159-3 *	
		ENDL-82	1044			882.2-3 *	1.342	1.631-3 *	
		RCN-3	470109			606.4-3 *	1.742	1.714-3 *	
	CAPTURE	JEF-1	4479	89.89	80.53	1.457+3	1.015-3	130.6-3	
		ENDF/B-5	1373	91.84	81.77	1.461+3	3.837-6	106.6-3	
		ENDL-82	1044	93.36	82.99	1.549+3	1.089-3	61.62-3 *	
		RCN-3	470109	89.89	80.14	1.457+3 *	1.015-3	130.6-3 *	
	(N,P)	JEF-1	4479			6.379-3 *	10.27-3	11.65-6 *	
		ENDF/B-5	1373			10.74-3 *	16.62-3	85.40-6 *	
		ENDL-82	1044			10.93-3 *	16.24-3	105.2-6 *	
		RCN-3	470109			2.770-3 *	10.27-3	11.36-6 *	
	(N,A)	JEF-1	4479			6.940-3	9.881-3	5.846-6	
		ENDF/B-5	1373			8.380-3	10.23-3	65.60-6	
		ENDL-82	1044			8.233-3 *	10.19-3	57.91-6 *	
		RCN-3	470109			2.383-3 *	9.881-3	5.511-6 *	
	47-AG-111	TOTAL	JEF-1	4471	7.223	6.910	199.9	4.573	5.500
			ENDF/B-5	9415	7.223	7.543	204.4	4.573	5.501
ELASTIC		JEF-1	4471	4.223	4.223	90.15	3.340	4.170	
		ENDF/B-5	9415	4.223	4.223	90.08	3.339	4.170	
INELAST.		JEF-1	4471			5.243 *	1.232	1.274 *	
		ENDF/B-5	9415			5.243 *	1.232	1.274 *	
CAPTURE		JEF-1	4471	3.000	2.659	104.0	1.936-3	50.67-3	
		ENDF/B-5	9415	3.000	2.660	103.9	1.935-3	50.65-3	
48-CD-0		TOTAL	JEF-1	4480	2.453+3	2.907+3	188.3	4.620	5.652
			ENDF/B-5	1281	2.453+3	2.908+3	187.9	4.620	5.651
			ENDL-82	1045	2.457+3	2.982+3 *	160.1	4.201	5.695 *
			KEDAK-4	480000	2.520+3	2.983+3 *	200.7	4.620	5.652 *
	ELASTIC	JEF-1	4480	7.176	10.12	109.6	2.650	4.294	
		ENDF/B-5	1281	7.176	10.12	109.4	2.650	4.293	
		ENDL-82	1045	7.017	10.15	88.67	2.350	4.413 *	
		KEDAK-4	480000	7.763	10.88	123.2	2.650	4.298 *	
	INELAST.	JEF-1	4480			5.009 *	366.0-3	1.308 *	
		ENDF/B-5	1281			5.009 *	366.0-3	1.309 *	
		ENDL-82	1045			4.557 *	266.7-3	1.256 *	
		KEDAK-4	480000			4.921 *	366.0-3	1.307 *	
	(N,2N)	JEF-1	4480			952.1-3 *	1.581	1.324-3 *	
		ENDF/B-5	1281			951.6-3 *	1.581	1.322-3 *	
		ENDL-82	1045			1.011 *	1.583	3.081-3 *	
		KEDAK-4	480000			484.0-3 *	1.581	1.318-3 *	
	CAPTURE	JEF-1	4480	2.446+3	2.897+3	72.26	2.300-3	46.85-3	
		ENDF/B-5	1281	2.446+3	2.898+3	72.03	2.300-3	46.52-3	
		ENDL-82	1045	2.450+3	2.972+3 *	65.74	812.6-6	22.11-3 *	
		KEDAK-4	480000	2.512+3	2.972+3 *	72.09	2.300-3	46.87-3 *	
	(N,P)	JEF-1	4480			12.91-3	18.60-3	56.37-6	
		ENDF/B-5	1281			12.90-3	18.59-3	56.41-6	
		KEDAK-4	480000			5.783-3 *	18.60-3	58.09-6 *	
	(N,A)	JEF-1	4480			1.726-3	2.600-3	2.856-6	
		ENDF/B-5	1281			1.726-3	2.600-3	2.856-6	
		KEDAK-4	480000			694.8-6 *	2.600-3	3.036-6 *	
	48-CD-106	TOTAL	JEF-1	4481	6.623	12.08	141.3	7.103	6.151
			ENDF/B-5	9440	6.623	12.08	141.3	7.103	6.150
	ELASTIC	JEF-1	4481	5.523	5.523	121.5	5.440	5.060	
		ENDF/B-5	9440	5.523	5.523	121.5	5.440	5.061	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.
48-CD-106	INELAST.	JEF-1	4481			4.831 *	1.660	1.012 *
		ENDF/B-5	9440			4.831 *	1.660	1.012 *
	CAPTURE	JEF-1	4481	1.100	6.559	14.98	2.790-3	77.49-3
		ENDF/B-5	9440	1.100	6.559	14.98	2.790-3	77.49-3
48-CD-108	TOTAL	JEF-1	4482	5.246	5.139	100.1	4.522	5.482
		ENDF/B-5	9442	5.246	5.498	101.7	4.519	5.487
	ELASTIC	JEF-1	4482	4.146	4.146	91.79	3.179	4.637
		ENDF/B-5	9442	4.146	4.146	91.72	3.178	4.637
	INELAST.	JEF-1	4482			3.807 *	1.342	746.3-3 *
		ENDF/B-5	9442			3.807 *	1.342	746.3-3 *
	CAPTURE	JEF-1	4482	1.100	974.9-3	4.288	2.257-3	95.67-3
		ENDF/B-5	9442	1.100	975.4-3	4.286	2.255-3	95.69-3
48-CD-110	TOTAL	JEF-1	4483	14.32	13.06	175.6	4.557	5.497
		ENDF/B-5	9444	14.32	13.06	175.6	4.557	5.497
	ELASTIC	JEF-1	4483	3.211	3.211	128.9	3.190	4.600
		ENDF/B-5	9444	3.211	3.211	128.9	3.190	4.600
	INELAST.	JEF-1	4483			3.866 *	1.365	763.2-3 *
		ENDF/B-5	9444			3.866 *	1.365	763.2-3 *
	CAPTURE	JEF-1	4483	11.11	9.845	42.76	2.148-3	114.5-3
		ENDF/B-5	9444	11.11	9.845	42.76	2.148-3	114.5-3
48-CD-111	TOTAL	JEF-1	4484	29.72	26.99	165.9	4.613	5.890
		ENDF/B-5	9445	27.98	25.23	152.0	4.573	5.511
	ELASTIC	JEF-1	4484	6.015	6.009	110.6	2.730	4.322
		ENDF/B-5	9445	3.682	3.682	91.51	3.110	4.096
	INELAST.	JEF-1	4484			5.343 *	38.03-3	1.518 *
		ENDF/B-5	9445			5.806 *	1.460	1.351 *
	(N,2N)	JEF-1	4484			1.379 *	1.843	5.504-3 *
	CAPTURE	JEF-1	4484	23.71	20.98	48.46	2.174-3	44.70-3
		ENDF/B-5	9445	24.30	21.55	54.61	2.657-3	58.17-3
48-CD-112	TOTAL	JEF-1	4485	5.930	5.681	109.9	4.587	5.505
		ENDF/B-5	9447	5.930	5.681	109.9	4.587	5.505
	ELASTIC	JEF-1	4485	3.729	3.729	91.76	3.169	4.521
		ENDF/B-5	9447	3.729	3.729	91.76	3.169	4.521
	INELAST.	JEF-1	4485			4.205 *	1.416	874.2-3 *
		ENDF/B-5	9447			4.205 *	1.416	874.2-3 *
	CAPTURE	JEF-1	4485	2.201	1.951	13.83	2.032-3	94.25-3
		ENDF/B-5	9447	2.201	1.951	13.83	2.032-3	94.25-3
48-CD-113	TOTAL	JEF-1	4486	19.99+3	23.57+3	505.7	4.620	5.678
		ENDF/B-5	1318	19.92+3	23.54+3	504.5	4.620	5.677
	ELASTIC	JEF-1	4486	21.74	44.89	116.7	2.650	4.091
		ENDF/B-5	1318	21.71	44.85	116.7	2.650	4.089
	INELAST.	JEF-1	4486			5.582 *	216.0-3	1.525 *
		ENDF/B-5	1318			5.582 *	216.0-3	1.525 *
	(N,2N)	JEF-1	4486			1.226 *	1.737	3.615-3 *
		ENDF/B-5	1318			1.226 *	1.737	3.615-3 *
	CAPTURE	JEF-1	4486	19.97+3	23.53+3	382.1	2.800-3	57.19-3
		ENDF/B-5	1318	19.90+3	23.49+3	381.0	2.800-3	56.75-3
	(N,P)	JEF-1	4486			8.506-3 *	12.70-3	11.39-6 *
		ENDF/B-5	1318			8.506-3	12.70-3	11.40-6
	(N,A)	JEF-1	4486			1.065-3	1.700-3	355.8-9
		ENDF/B-5	1318			1.065-3	1.700-3	356.0-9
48-CD-114	TOTAL	JEF-1	4487	3.722	3.684	134.0	4.612	5.514
		ENDF/B-5	9450	3.722	3.684	138.8	4.612	5.514
	ELASTIC	JEF-1	4487	3.385	3.385	114.4	3.298	4.622
		ENDF/B-5	9450	3.385	3.385	109.9	3.298	4.621
	INELAST.	JEF-1	4487			3.841 *	1.312	780.4-3 *
		ENDF/B-5	9450			3.841 *	1.312	780.4-3 *
	CAPTURE	JEF-1	4487	337.4-3	298.8-3	17.18	1.929-3	97.82-3
		ENDF/B-5	9450	337.4-3	298.8-3	19.28	1.929-3	97.89-3
48-CD-115M	TOTAL	JEF-1	4488	35.32	31.91	296.8	4.623	5.503
	ELASTIC	JEF-1	4488	4.324	4.324	95.30	3.113	4.637
	INELAST.	JEF-1	4488			4.354 *	1.507	910.7-3 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.
48-CD-116M	CAPTURE	JEF-1	4488	31.00	27.48	196.3	2.394-3	46.09-3
48-CD-116	TOTAL	JEF-1	4489	4.307	4.299	93.87	4.631	5.525
		ENDF/B-5	9453	4.307	4.299	93.87	4.631	5.525
	ELASTIC	JEF-1	4489	4.230	4.230	87.01	3.147	4.585
		ENDF/B-5	9453	4.230	4.230	87.01	3.147	4.585
	INELAST.	JEF-1	4489			4.359 *	1.482	879.1-3 *
		ENDF/B-5	9453			4.359 *	1.482	879.1-3 *
	CAPTURE	JEF-1	4489	76.88-3	68.17-3	2.438	1.832-3	42.78-3
		ENDF/B-5	9453	76.88-3	68.17-3	2.438	1.832-3	42.78-3
49-IN-113	TOTAL	JEF-1	4493	15.10	13.94	329.7	4.597	5.523
		ENDF/B-5	9473	15.10	13.87	329.3	4.600	5.509
	ELASTIC	JEF-1	4493	3.694	3.691	98.20	3.175	4.611
		ENDF/B-5	9473	3.696	3.694	98.19	3.178	4.610
	INELAST.	JEF-1	4493			3.591 *	1.420	631.4-3 *
		ENDF/B-5	9473			3.591 *	1.420	631.4-3 *
	CAPTURE	JEF-1	4493	11.41	10.22	226.9	2.248-3	244.8-3
		ENDF/B-5	9473	11.41	10.18	226.7	2.243-3	244.3-3
49-IN-116	TOTAL	JEF-1	4495	205.1	185.3	3.505+3	4.619	5.529
		ENDF/B-5	9477	204.7	184.8	3.504+3	4.622	5.519
	ELASTIC	JEF-1	4495	1.730	1.713	221.3	3.240	4.598
		ENDF/B-5	9477	1.727	1.709	221.3	3.244	4.599
	INELAST.	JEF-1	4495			3.850 *	1.377	773.3-3 *
		ENDF/B-5	9477			3.850 *	1.377	773.3-3 *
	CAPTURE	JEF-1	4495	203.4	183.5	3.279+3	2.110-3	133.3-3
		ENDF/B-5	9477	202.9	183.1	3.278+3	2.105-3	133.0-3
50-SN-112	TOTAL	JEF-1	4500	5.341	5.262	143.0	4.666	5.733
		ENDF/B-5	9513	6.342	9.665	156.1	7.313	6.242
	ELASTIC	JEF-1	4500	4.614	4.614	108.0	2.747	4.961
		ENDF/B-5	9513	5.195	5.195	121.5	5.590	5.389
	INELAST.	JEF-1	4500			3.294 *	688.3-3	640.8-3 *
		ENDF/B-5	9513			4.058 *	1.720	678.5-3 *
	(N,2N)	JEF-1	4500			681.4-3 *	1.132	257.0-6 *
	(N,N+A)	JEF-1	4500			12.70-3 *	3.130-3	5.313-6 *
	(N,N+P)	JEF-1	4500			22.11-3 *	15.39-3	3.006-6 *
	CAPTURE	JEF-1	4500	727.0-3	648.2-3	29.77	1.043-3	113.2-3
		ENDF/B-5	9513	1.147	4.470	30.67	2.460-3	174.2-3
	(N,P)	JEF-1	4500			38.40-3	50.51-3	1.036-3
	(N,D)	JEF-1	4500			9.732-3 *	5.930-3	4.734-6 *
(N,A)	JEF-1	4500			16.88-3	22.63-3	223.5-6	
50-SN-114	TOTAL	JEF-1	4501	6.770	12.23	113.2	7.312	6.249
		ENDF/B-5	9516	6.770	12.23	113.2	7.312	6.248
	ELASTIC	JEF-1	4501	5.663	5.663	104.7	5.600	5.347
		ENDF/B-5	9516	5.663	5.663	104.7	5.600	5.347
	INELAST.	JEF-1	4501			4.202 *	1.710	743.0-3 *
		ENDF/B-5	9516			4.202 *	1.710	743.0-3 *
CAPTURE	JEF-1	4501	1.107	6.565	4.316	1.860-3	158.4-3	
	ENDF/B-5	9516	1.107	6.565	4.316	1.860-3	158.4-3	
50-SN-116	TOTAL	JEF-1	4502	54.71	48.84	120.0	4.619	5.529
		ENDF/B-5	9517	54.28	48.61	119.5	4.622	5.519
	ELASTIC	JEF-1	4502	4.278	4.278	90.69	3.101	4.454
		ENDF/B-5	9517	4.278	4.278	90.68	3.104	4.445
	INELAST.	JEF-1	4502			4.815 *	1.515	1.048 *
		ENDF/B-5	9517			4.815 *	1.515	1.048 *
	CAPTURE	JEF-1	4502	50.30	44.54	24.01	2.771-3	6.054-3
		ENDF/B-5	9517	50.00	44.33	23.90	2.766-3	6.036-3
50-SN-116	TOTAL	JEF-1	4503	4.100	4.086	118.1	4.631	5.525
		ENDF/B-5	9518	4.100	4.086	118.1	4.631	5.525
	ELASTIC	JEF-1	4503	3.979	3.979	103.1	3.151	5.025
		ENDF/B-5	9518	3.979	3.979	103.1	3.151	5.025
	INELAST.	JEF-1	4503			3.201 *	1.478	444.2-3 *
		ENDF/B-5	9518			3.201 *	1.478	444.2-3 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.
50-SN-116	CAPTURE	JEF-1	4503	120.7-3	107.1-3	11.75	2.204-3	29.67-3
		ENDF/B-5	9518	120.7-3	107.1-3	11.75	2.204-3	29.67-3
50-SN-117	TOTAL	JEF-1	4504	6.884	6.584	112.5	4.636	5.528
		ENDF/B-5	9519	6.838	6.545	112.2	4.639	5.531
	ELASTIC	JEF-1	4504	4.240	4.240	87.99	3.108	4.314
		ENDF/B-5	9519	4.240	4.240	87.93	3.111	4.302
	INELAST.	JEF-1	4504			5.549 *	1.525	1.170 *
		ENDF/B-5	9519			5.549 *	1.525	1.170 *
	CAPTURE	JEF-1	4504	2.614	2.316	18.67	2.672-3	40.17-3
		ENDF/B-5	9519	2.599	2.304	18.63	2.667-3	40.03-3
50-SN-118	TOTAL	JEF-1	4505	4.181	4.172	107.4	4.642	5.539
		ENDF/B-5	9521	4.181	4.172	107.4	4.642	5.539
	ELASTIC	JEF-1	4505	4.099	4.099	97.79	3.158	4.988
		ENDF/B-5	9521	4.099	4.099	97.79	3.158	4.988
	INELAST.	JEF-1	4505			3.231 *	1.485	451.2-3 *
		ENDF/B-5	9521			3.231 *	1.485	451.2-3 *
	CAPTURE	JEF-1	4505	82.41-3	73.28-3	6.256	2.082-3	70.32-3
		ENDF/B-5	9521	82.41-3	73.28-3	6.256	2.082-3	70.32-3
50-SN-119	TOTAL	JEF-1	4506	6.757	6.481	100.0	4.648	5.550
		ENDF/B-5	9522	6.705	6.445	99.76	4.648	5.547
	ELASTIC	JEF-1	4506	4.405	4.405	89.45	3.221	4.286
		ENDF/B-5	9522	4.405	4.405	89.09	3.224	4.281
	INELAST.	JEF-1	4506			6.711 *	1.424	1.250 *
		ENDF/B-5	9522			6.711 *	1.424	1.250 *
	CAPTURE	JEF-1	4506	2.300	2.050	3.936	2.580-3	7.774-3
		ENDF/B-5	9522	2.300	2.039	3.900	2.575-3	7.746-3
50-SN-120	TOTAL	JEF-1	4507	4.528	4.514	88.95	4.653	5.555
		ENDF/B-5	9524	4.528	4.514	88.95	4.653	5.555
	ELASTIC	JEF-1	4507	4.387	4.387	84.21	3.125	5.019
		ENDF/B-5	9524	4.387	4.387	84.21	3.125	5.019
	INELAST.	JEF-1	4507			3.391 *	1.529	490.2-3 *
		ENDF/B-5	9524			3.391 *	1.529	490.2-3 *
	CAPTURE	JEF-1	4507	141.0-3	125.0-3	1.252	1.994-3	17.06-3
		ENDF/B-5	9524	141.0-3	125.0-3	1.251	1.994-3	17.06-3
50-SN-122	TOTAL	JEF-1	4508	4.363	4.344	92.53	4.660	5.576
		ENDF/B-5	9527	4.363	4.344	92.53	4.660	5.576
	ELASTIC	JEF-1	4508	4.182	4.182	88.21	3.145	5.010
		ENDF/B-5	9527	4.182	4.182	88.21	3.145	5.010
	INELAST.	JEF-1	4508			3.472 *	1.516	529.1-3 *
		ENDF/B-5	9527			3.472 *	1.516	529.1-3 *
	CAPTURE	JEF-1	4508	181.0-3	160.5-3	767.5-3	1.921-3	12.74-3
		ENDF/B-5	9527	181.0-3	160.5-3	767.4-3	1.921-3	12.74-3
50-SN-123	TOTAL	JEF-1	4509	4.555	4.583	99.78	4.665	5.587
		ENDF/B-5	9528	4.555	4.585	99.74	4.662	5.587
	ELASTIC	JEF-1	4509	4.522	4.522	93.83	3.534	4.925
		ENDF/B-5	9528	4.522	4.522	93.76	3.533	4.924
	INELAST.	JEF-1	4509			3.136 *	1.130	608.5-3 *
		ENDF/B-5	9528			3.136 *	1.130	608.5-3 *
	CAPTURE	JEF-1	4509	33.00-3	29.25-3	2.685	2.383-3	39.26-3
		ENDF/B-5	9528	33.00-3	29.26-3	2.684	2.383-3	39.25-3
50-SN-124	TOTAL	JEF-1	4510	4.572	4.558	97.48	4.664	5.600
		ENDF/B-5	9530	4.572	4.558	97.48	4.664	5.600
	ELASTIC	JEF-1	4510	4.442	4.442	86.89	3.157	5.069
		ENDF/B-5	9530	4.442	4.442	86.89	3.157	5.069
	INELAST.	JEF-1	4510			3.370 *	1.508	489.7-3 *
		ENDF/B-5	9530			3.370 *	1.508	489.7-3 *
	CAPTURE	JEF-1	4510	129.9-3	115.2-3	7.140	1.854-3	17.32-3
		ENDF/B-5	9530	129.9-3	115.2-3	7.140	1.854-3	17.32-3
50-SN-125	TOTAL	JEF-1	4511	5.121	5.070	115.9	4.668	5.605
		ENDF/B-5	9531	5.121	5.318	117.7	4.665	5.616
	ELASTIC	JEF-1	4511	4.571	4.571	98.18	3.733	5.053
	ENDF/B-5	9531	4.571	4.571	98.11	3.732	5.054	
	INELAST.	JEF-1	4511			2.679 *	934.5-3	537.1-3 *
		ENDF/B-5	9531			2.679 *	934.5-3	537.1-3 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.
50-SN-126	CAPTURE	JEF-1	4511	550.0-3	487.5-3	14.85	2.269-3	11.10-3
		ENDF/B-5	9531	550.0-3	487.7-3	14.85	2.268-3	11.10-3
50-SN-126	TOTAL	JEF-1	4512	4.895	4.887	88.29	4.669	5.612
		ENDF/B-5	9533	4.895	5.043	89.28	4.666	5.628
	ELASTIC	JEF-1	4512	4.595	4.595	84.76	3.161	5.131
		ENDF/B-5	9533	4.595	4.595	84.70	3.161	5.131
	INELAST.	JEF-1	4512			3.298 *	1.507	474.4-3 *
		ENDF/B-5	9533			3.299 *	1.507	474.5-3 *
	CAPTURE	JEF-1	4512	300.0-3	265.9-3	185.3-3	1.807-3	5.622-3
		ENDF/B-5	9533	300.0-3	266.0-3	185.1-3	1.807-3	5.622-3
51-SB-121	TOTAL	JEF-1	4513	10.06	9.319	304.4	4.656	5.572
		ENDF/B-5	9548	9.952	9.274	303.9	4.656	5.574
	ELASTIC	JEF-1	4513	3.695	3.693	91.66	3.124	4.243
		ENDF/B-5	9548	3.696	3.694	91.60	3.128	4.242
	INELAST.	JEF-1	4513			6.145 *	1.530	1.219 *
		ENDF/B-5	9548			6.145 *	1.530	1.219 *
	CAPTURE	JEF-1	4513	6.310	5.598	206.4	1.991-3	105.1-3
		ENDF/B-5	9548	6.256	5.579	206.1	1.992-3	104.7-3
51-SB-123	TOTAL	JEF-1	4514	8.149	7.652	250.8	4.662	5.584
		ENDF/B-5	9551	8.092	7.614	250.5	4.662	5.587
	ELASTIC	JEF-1	4514	3.765	3.764	118.0	3.137	4.554
		ENDF/B-5	9551	3.765	3.765	118.0	3.140	4.551
	INELAST.	JEF-1	4514			4.834 *	1.524	970.5-3 *
		ENDF/B-5	9551			4.834 *	1.524	970.5-3 *
	CAPTURE	JEF-1	4514	4.368	3.864	127.7	1.725-3	47.45-3
		ENDF/B-5	9551	4.327	3.848	127.6	1.726-3	47.31-3
51-SB-124	TOTAL	JEF-1	4515	11.05	10.34	116.5	4.667	5.597
		ENDF/B-5	9552	11.05	11.30	119.1	4.664	5.601
	ELASTIC	JEF-1	4515	4.546	4.546	81.62	3.127	3.860
		ENDF/B-5	9552	4.546	4.546	81.57	3.126	3.861
	INELAST.	JEF-1	4515			8.364 *	1.539	1.673 *
		ENDF/B-5	9552			8.364 *	1.539	1.673 *
	CAPTURE	JEF-1	4515	6.500	5.761	26.42	2.503-3	57.47-3
		ENDF/B-5	9552	6.500	5.763	26.41	2.502-3	57.46-3
51-SB-125	TOTAL	JEF-1	4516	5.571	5.473	128.6	4.668	5.623
		ENDF/B-5	9555	5.571	5.818	129.7	4.665	5.623
	ELASTIC	JEF-1	4516	4.571	4.571	105.4	3.155	4.598
		ENDF/B-5	9555	4.571	4.571	105.3	3.154	4.598
	INELAST.	JEF-1	4516			4.564 *	1.513	938.6-3 *
		ENDF/B-5	9555			4.564 *	1.513	938.6-3 *
	CAPTURE	JEF-1	4516	1.000	886.3-3	18.37	2.022-3	77.70-3
		ENDF/B-5	9555	1.000	886.7-3	18.36	2.021-3	77.71-3
51-SB-126	TOTAL	JEF-1	4517	10.40	9.778	158.4	4.669	5.617
		ENDF/B-5	9556	10.40	10.76	163.4	4.666	5.630
	ELASTIC	JEF-1	4517	4.595	4.595	107.3	3.239	4.546
		ENDF/B-5	9556	4.595	4.595	107.2	3.238	4.546
	INELAST.	JEF-1	4517			4.980 *	1.430	1.027 *
		ENDF/B-5	9556			4.980 *	1.430	1.027 *
	CAPTURE	JEF-1	4517	5.800	5.141	45.73	2.371-3	36.72-3
		ENDF/B-5	9556	5.800	5.143	45.71	2.371-3	36.71-3
52-TE-120	TOTAL	JEF-1	4520	7.095	18.51	162.4	7.501	6.372
		ENDF/B-5	9576	7.095	18.51	162.4	7.501	6.371
	ELASTIC	JEF-1	4520	4.796	4.796	128.4	5.740	5.052
		ENDF/B-5	9576	4.796	4.796	128.4	5.740	5.052
	INELAST.	JEF-1	4520			5.336 *	1.760	1.178 *
		ENDF/B-5	9576			5.336 *	1.760	1.178 *
	CAPTURE	JEF-1	4520	2.299	13.71	28.58	1.400-3	141.5-3
		ENDF/B-5	9576	2.299	13.71	28.58	1.400-3	141.5-3
52-TE-122	TOTAL	JEF-1	4521	5.760	5.443	216.9	4.660	5.577
		ENDF/B-5	9579	5.761	5.444	216.9	4.660	5.576
	ELASTIC	JEF-1	4521	2.951	2.951	138.4	3.192	4.587
		ENDF/B-5	9579	2.951	2.951	138.4	3.192	4.587
	INELAST.	JEF-1	4521			4.236 *	1.469	848.4-3 *
		ENDF/B-5	9579			4.236 *	1.469	848.4-3 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.	
52-TE-122	CAPTURE	JEF-1	4521	2.809	2.492	74.18	2.264-3	122.7-3	
		ENDF/B-5	9579	2.801	2.493	74.14	2.264-3	122.7-3	
52-TE-123	TOTAL	JEF-1	4522	409.8	368.5	6.231+3	4.662	5.588	
		ENDF/B-5	9580	409.6	368.6	6.227+3	4.662	5.588	
	ELASTIC	JEF-1	4522			675.3	3.145	4.177	
		ENDF/B-5	9580			674.8	3.145	4.177	
INELAST.	JEF-1	4522			5.858 *	1.518	1.312 *		
	ENDF/B-5	9580			5.858 *	1.518	1.312 *		
CAPTURE	JEF-1	4522		410.0	368.7	5.560+3	2.765-3	85.11-3	
	ENDF/B-5	9580		409.8	368.8	5.546+3	2.765-3	85.11-3	
52-TE-124	TOTAL	JEF-1	4523	10.62	9.847	106.9	4.664	5.601	
		ENDF/B-5	9582	10.62	9.847	106.9	4.664	5.601	
	ELASTIC	JEF-1	4523		3.816	3.816	94.24	3.254	4.619
		ENDF/B-5	9582		3.816	3.816	94.23	3.254	4.619
INELAST.	JEF-1	4523				4.166 *	1.411	857.8-3 *	
	ENDF/B-5	9582				4.166 *	1.411	857.8-3 *	
CAPTURE	JEF-1	4523		6.800	6.030	8.425	2.162-3	110.0-3	
	ENDF/B-5	9582		6.800	6.030	8.423	2.162-3	110.0-3	
52-TE-125	TOTAL	JEF-1	4524	5.513	5.337	130.1	4.665	5.616	
		ENDF/B-5	9583	5.511	5.337	130.1	4.665	5.616	
	ELASTIC	JEF-1	4524		3.961	3.961	99.62	3.176	4.170
		ENDF/B-5	9583		3.961	3.961	99.61	3.176	4.170
INELAST.	JEF-1	4524				6.788 *	1.490	1.393 *	
	ENDF/B-5	9583				6.788 *	1.490	1.393 *	
CAPTURE	JEF-1	4524		1.552	1.375	23.67	2.653-3	41.89-3	
	ENDF/B-5	9583		1.550	1.375	23.66	2.653-3	41.89-3	
52-TE-126	TOTAL	JEF-1	4525	5.147	5.031	119.4	4.666	5.629	
		ENDF/B-5	9585	5.146	5.031	119.4	4.666	5.629	
	ELASTIC	JEF-1	4525		4.111	4.111	104.6	3.177	4.687
		ENDF/B-5	9585		4.111	4.111	104.6	3.177	4.687
INELAST.	JEF-1	4525				4.347 *	1.491	886.9-3 *	
	ENDF/B-5	9585				4.347 *	1.491	886.9-3 *	
CAPTURE	JEF-1	4525		1.035	918.5-3	10.39	2.074-3	39.21-3	
	ENDF/B-5	9585		1.035	918.5-3	10.38	2.074-3	39.21-3	
52-TE-127M	TOTAL	JEF-1	4526	14.02	13.00	166.2	4.670	5.631	
		ENDF/B-5	9587	14.02	14.33	172.6	4.667	5.646	
	ELASTIC	JEF-1	4526		4.620	4.620	118.9	3.153	4.728
		ENDF/B-5	9587		4.620	4.620	118.8	3.153	4.729
INELAST.	JEF-1	4526				4.221 *	1.515	827.5-3 *	
	ENDF/B-5	9587				4.221 *	1.515	827.5-3 *	
CAPTURE	JEF-1	4526		9.400	8.331	42.53	2.522-3	65.25-3	
	ENDF/B-5	9587		9.400	8.335	42.51	2.521-3	65.24-3	
52-TE-128	TOTAL	JEF-1	4527	4.068	4.045	85.01	4.825	5.883	
		ENDF/B-5	9588	4.758	4.735	95.40	4.668	5.662	
		JENDL-1	5228	4.068	4.045	83.62	4.823	5.883 *	
	ELASTIC	JEF-1	4527		3.853	3.853	78.18	2.871	4.893
ENDF/B-5		9588		4.543	4.543	88.75	3.174	4.778	
JENDL-1		5228		3.853	3.853	77.37	2.871	4.893 *	
INELAST.	JEF-1	4527				5.059 *	1.952	976.5-3 *	
	ENDF/B-5	9588				4.166 *	1.495	817.4-3 *	
	JENDL-1	5228				4.489 *	1.952	976.5-3 *	
CAPTURE	JEF-1	4527		214.9-3	190.6-3	1.752	7.794-6	9.207-3	
	ENDF/B-5	9588		214.7-3	190.4-3	2.413	2.005-3	46.58-3	
	JENDL-1	5228		214.9-3	190.6-3	1.752 *	7.794-6	9.207-3 *	
52-TE-129M	TOTAL	JEF-1	4528	5.768	5.661	124.6	4.671	5.661	
		ENDF/B-5	9590	5.768	6.036	126.2	4.668	5.681	
	ELASTIC	JEF-1	4528		4.668	4.668	113.8	3.146	4.692
		ENDF/B-5	9590		4.668	4.668	113.7	3.146	4.691
INELAST.	JEF-1	4528				4.486 *	1.523	951.5-3 *	
	ENDF/B-5	9590				4.486 *	1.523	951.4-3 *	
CAPTURE	JEF-1	4528		1.100	974.9-3	6.057	2.428-3	13.12-3	
	ENDF/B-5	9590		1.100	975.4-3	6.054	2.427-3	13.12-3	
52-TE-130	TOTAL	JEF-1	4529	4.919	4.888	87.54	4.668	5.694	
		ENDF/B-5	9591	4.919	4.888	87.54	4.668	5.694	
		JENDL-1	5230	4.070	4.038	78.68	4.855	5.915 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)			
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.		
52-TE-130	ELASTIC	JEF-1	4529	4.629	4.629	83.09	3.164	4.908		
		ENDF/B-5	9591	4.629	4.629	83.09	3.164	4.908		
		JENDL-1	5230	3.780	3.780	73.94	2.883	4.959 *		
	INELAST.	JEF-1	4529			4.025 *	1.505	763.2-3 *		
		ENDF/B-5	9591			4.025 *	1.505	763.2-3 *		
		JENDL-1	5230			4.413 *	1.972	946.9-3 *		
	CAPTURE	JEF-1	4529		290.0-3	257.1-3	354.6-3	1.947-3	4.425-3	
		ENDF/B-5	9591		290.0-3	257.1-3	354.5-3	1.947-3	4.425-3	
		JENDL-1	5230		290.0-3	257.2-3	316.9-3 *	8.679-6	4.242-3 *	
52-TE-132	TOTAL	JEF-1	4530	4.742	4.744	86.16	4.671	5.713		
		ENDF/B-5	9594	4.742	4.744	86.10	4.668	5.714		
	ELASTIC	JEF-1	4530	4.740	4.740	82.19	3.212	4.953		
		ENDF/B-5	9594	4.740	4.740	82.12	3.212	4.953		
	INELAST.	JEF-1	4530			3.911 *	1.457	744.3-3 *		
		ENDF/B-5	9594			3.911 *	1.457	744.3-3 *		
	CAPTURE	JEF-1	4530		2.000-3	1.773-3	5.627-3	1.898-3	632.5-6	
		ENDF/B-5	9594		2.000-3	1.773-3	5.625-3	1.897-3	632.5-6	
	53-I -127	TOTAL	JEF-1	4533	10.11	9.560	319.0	4.922	5.880	
			ENDF/B-5	9606	9.404	8.713	292.2	4.667	5.654	
			JENDL-1	5327	8.983	8.296	288.7	4.808	5.877 *	
			RCN-3	530127	10.11	9.533 *	317.7	4.922	5.880 *	
ELASTIC		JEF-1	4533		3.895	3.952	163.2	2.897	4.254	
		ENDF/B-5	9606		3.203	3.203	129.7	3.178	3.985	
		JENDL-1	5327		2.781	2.781	121.4	2.865	4.275 *	
		RCN-3	530127		3.895	3.951 *	162.3	2.897	4.255 *	
INELAST.		JEF-1	4533			6.128 *	33.23-3	1.546 *		
		ENDF/B-5	9606			7.154 *	1.490	1.593 *		
		JENDL-1	5327			6.721 *	1.943	1.510 *		
		RCN-3	530127			6.130 *	33.23-3	1.547 *		
(N,2N)		JEF-1	4533			1.095 *	1.971	1.870-3 *		
		RCN-3	530127			664.5-3 *	1.971	1.830-3 *		
CAPTURE		JEF-1	4533		6.216	5.610	148.6	1.434-3	77.96-3	
		ENDF/B-5	9606		6.201	5.509	155.4	2.061-3	72.71-3	
		JENDL-1	5327		6.202	5.509	160.6	31.95-6	86.13-3 *	
		RCN-3	530127		6.216	5.582 *	148.6	1.434-3	77.96-3 *	
(N,P)		JEF-1	4533			10.42-3	16.09-3	110.1-6		
		RCN-3	530127			6.275-3 *	16.09-3	109.7-6 *		
(N,D)		JEF-1	4533			19.38-3 *	1.380-3	2.060-6 *		
		RCN-3	530127			374.9-6 *	1.380-3	1.598-6 *		
(N,T)		JEF-1	4533			42.29-6 *	22.78-6	13.58-9 *		
		RCN-3	530127			5.143-6 *	22.78-6	11.91-9 *		
(N,HE-3)		JEF-1	4533			7.223-6 *	2.708-6	1.431-9 *		
		RCN-3	530127			598.6-9 *	2.708-6	1.120-9 *		
(N,A)		JEF-1	4533			2.056-3	1.784-3	6.985-6		
		RCN-3	530127			515.5-6 *	1.784-3	6.905-6 *		
53-I -129		TOTAL	JEF-1	4534	34.03	31.01	137.3	4.989	5.895	
			ENDF/B-5	9608	31.54	28.48	150.2	4.668	5.689	
			RCN-3	530129	32.80	29.88	136.2	4.926	5.898 *	
		ELASTIC	JEF-1	4534		7.259	7.250	101.4	2.917	4.352
			ENDF/B-5	9608		4.542	4.542	108.3	3.163	4.384
			RCN-3	530129		5.726	5.693 *	99.16	2.913	4.348 *
		INELAST.	JEF-1	4534			6.073 *	303.2-3	1.488 *	
			ENDF/B-5	9608			6.067 *	1.506	1.250 *	
	RCN-3		530129			5.903 *	23.07-3	1.509 *		
	(N,2N)	JEF-1	4534			1.028 *	1.753	1.796-3 *		
		RCN-3	530129			733.7-3 *	1.983	2.427-3 *		
	(N,3N)	JEF-1	4534			66.23-3 *		1.191-6 *		
	(N,N+A)	JEF-1	4534			920.9-6 *		30.23-9 *		
	(N,N+P)	JEF-1	4534			4.665-3 *	1.940-3	414.4-9 *		
	CAPTURE	JEF-1	4534		26.77	23.76	28.81	1.011-3	53.79-3	
		ENDF/B-5	9608		27.00	23.94	35.77	1.745-3	49.59-3	
		RCN-3	530129		27.07	24.18	30.40	1.408-3	38.60-3 *	
	(N,P)	JEF-1	4534			9.681-3 *	13.59-3	14.80-6 *		
		RCN-3	530129			1.330-3 *	3.968-3	18.99-6 *		
	(N,D)	RCN-3	530129			95.00-6 *	351.4-6	371.0-9 *		
	(N,T)	RCN-3	530129			4.575-6 *	20.22-6	11.15-9 *		

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.
53-I -129	(N,HE-3)	RCN-3	530129			514.3-9 *	2.330-6	
	(N,A)	JEF-1	4534			651.8-6	1.200-3	467.0-9
		RCN-3	530129			298.8-6 *	1.073-3	3.651-6 *
53-I -130	TOTAL	JEF-1	4535	22.69	20.71	328.9	4.671	5.696
		ENDF/B-5	9609	22.69	22.58	338.2	4.668	5.700
	ELASTIC	JEF-1	4535	4.692	4.692	141.1	3.148	4.129
		ENDF/B-5	9609	4.692	4.692	141.0	3.147	4.130
	INELAST.	JEF-1	4535			6.553 *	1.521	1.526 *
		ENDF/B-5	9609			6.553 *	1.521	1.526 *
	CAPTURE	JEF-1	4535	18.00	15.95	180.2	2.507-3	32.84-3
		ENDF/B-5	9609	18.00	15.96	180.1	2.506-3	32.83-3
53-I -131	TOTAL	JEF-1	4536	5.416	5.349	131.9	4.671	5.719
		ENDF/B-5	9611	5.416	5.637	132.9	4.668	5.720
	ELASTIC	JEF-1	4536	4.716	4.716	118.3	3.162	4.526
		ENDF/B-5	9611	4.716	4.716	118.2	3.161	4.526
	INELAST.	JEF-1	4536			5.305 *	1.508	1.166 *
		ENDF/B-5	9611			5.305 *	1.508	1.166 *
	CAPTURE	JEF-1	4536	700.0-3	620.4-3	7.976	2.098-3	13.00-3
		ENDF/B-5	9611	700.0-3	620.7-3	7.972	2.098-3	12.99-3
53-I -135	TOTAL	JEF-1	4537	4.832	4.850	91.78	4.671	5.807
		ENDF/B-5	9618	4.832	4.852	91.75	4.668	5.807
	ELASTIC	JEF-1	4537	4.812	4.812	88.36	3.261	5.296
		ENDF/B-5	9618	4.812	4.812	88.30	3.260	5.295
	INELAST.	JEF-1	4537			3.252 *	1.410	483.3-3 *
		ENDF/B-5	9618			3.252 *	1.410	483.3-3 *
	CAPTURE	JEF-1	4537	20.00-3	17.73-3	15.37-3	1.625-3	470.0-6
		ENDF/B-5	9618	20.00-3	17.73-3	15.36-3	1.626-3	469.8-6
54-XE-124	TOTAL	JEF-1	4540	169.1	151.2	3.850+3	4.759	5.865
		ENDF/B-5	1335	168.9	150.7	3.842+3	4.805	5.862
	ELASTIC	JEF-1	4540	4.298	4.296	786.1	3.096	4.370
		ENDF/B-5	1335	4.300	4.295	784.7	3.096	4.363
	INELAST.	JEF-1	4540			5.600 *	757.4-3	1.392 *
		ENDF/B-5	1335			5.600 *	757.4-3	1.393 *
	(N,2N)	JEF-1	4540			510.8-3 *	936.0-3	338.3-6 *
		ENDF/B-5	1335			510.8-3 *	936.0-3	338.4-6 *
	(N,3N)	JEF-1	4540			3.375-3 *		26.20-9 *
		ENDF/B-5	1335			3.375-3 *		26.23-9 *
	CAPTURE	JEF-1	4540	164.8	146.8	3.057+3		106.0-3
		ENDF/B-5	1335	164.6	146.4	3.052+3		105.5-3
	(N,P)	JEF-1	4540			5.839-3	11.60-3	32.94-6
		ENDF/B-5	1335			5.839-3	11.60-3	32.97-6
	(N,D)	JEF-1	4540			5.127-3 *	2.180-3	940.7-9 *
		ENDF/B-5	1335			5.127-3 *	2.180-3	941.6-9 *
	(N,T)	JEF-1	4540			819.4-6 *	205.0-6	52.39-9 *
	ENDF/B-5	1335			819.4-6 *	205.0-6	52.44-9 *	
(N,HE-3)	JEF-1	4540			347.3-6 *	1.090-6	29.32-9 *	
	ENDF/B-5	1335			347.3-6 *	1.090-6	29.34-9 *	
(N,A)	JEF-1	4540			1.549-3	1.810-3	28.46-6	
	ENDF/B-5	1335			1.549-3	1.810-3	28.48-6	
54-XE-126	TOTAL	JEF-1	4541	6.543	6.291	217.2	4.849	5.882
		ENDF/B-5	1339	6.512	6.260	216.2	4.849	5.887
	ELASTIC	JEF-1	4541	4.311	4.310	166.6	2.843	4.494
		ENDF/B-5	1339	4.311	4.310	165.9	2.843	4.479
	INELAST.	JEF-1	4541			5.300 *	534.1-3	1.335 *
		ENDF/B-5	1339			5.300 *	534.1-3	1.336 *
	(N,2N)	JEF-1	4541			817.1-3 *	1.465	706.3-6 *
		ENDF/B-5	1339			817.1-3 *	1.465	706.5-6 *
	(N,3N)	JEF-1	4541			12.76-3 *		110.7-9 *
		ENDF/B-5	1339			12.76-3 *		110.8-9 *
	CAPTURE	JEF-1	4541	2.206	1.957	44.26		72.46-3
	ENDF/B-5	1339	2.201	1.950	44.15		72.10-3	
(N,P)	JEF-1	4541			2.057-3 *	4.250-3	8.547-6 *	
	ENDF/B-5	1339			2.057-3 *	4.250-3	8.554-6 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.	
54-XE-126	(N,D)	JEF-1 ENDF/B-5	4541 1339			2.991-3 * 2.991-3 *	1.060-3 1.060-3	387.8-9 * 388.2-9 *	
	(N,T)	JEF-1 ENDF/B-5	4541 1339			475.6-6 * 475.6-6 *	35.50-6 35.50-6	19.72-9 * 19.74-9 *	
	(N,HE-3)	JEF-1 ENDF/B-5	4541 1339			110.6-6 * 110.6-6 *	9.136-6 9.136-6	56.67-9 * 56.70-9 *	
	(N,A)	JEF-1 ENDF/B-5	4541 1339			765.1-6 765.1-6	1.060-3 1.060-3	8.378-6 8.384-6	
54-XE-128	TOTAL	JEF-1 ENDF/B-5	4542 1348	9.679 9.660	9.080 9.040	160.0 159.7	4.862 4.888	5.919 5.922	
	ELASTIC	JEF-1 ENDF/B-5	4542 1348	4.300 4.300	4.299 4.299	142.5 142.2	2.655 2.655	4.516 4.509	
	INELAST.	JEF-1 ENDF/B-5	4542 1348			5.184 * 5.184 *	409.6-3 409.6-3	1.363 * 1.364 *	
	(N,2N)	JEF-1 ENDF/B-5	4542 1348			1.040 * 1.040 *	1.796 1.796	1.333-3 * 1.334-3 *	
	(N,3N)	JEF-1 ENDF/B-5	4542 1348			53.59-3 * 53.59-3 *		630.5-9 * 631.2-9 *	
	CAPTURE	JEF-1 ENDF/B-5	4542 1348	5.378 5.360	4.757 4.741	11.25 11.23		48.93-3 48.73-3	
	(N,P)	JEF-1 ENDF/B-5	4542 1348			13.08-3 * 13.08-3 *	26.00-3 26.00-3	42.56-6 * 42.59-6 *	
	(N,D)	JEF-1 ENDF/B-5	4542 1348			1.839-3 * 1.839-3 *	583.0-6 583.0-6	216.2-9 * 216.4-9 *	
	(N,T)	JEF-1 ENDF/B-5	4542 1348			357.0-6 * 357.0-6 *	21.20-6 21.20-6	27.86-9 * 27.88-9 *	
	(N,HE-3)	JEF-1 ENDF/B-5	4542 1348			41.65-6 * 41.65-6 *	5.484-6 5.484-6	16.45-9 * 16.46-9 *	
	(N,A)	JEF-1 ENDF/B-5	4542 1348			246.0-6 246.1-6	310.0-6 310.0-6	2.071-6 2.072-6	
	54-XE-129	TOTAL	JEF-1 ENDF/B-5	4543 1349	22.34 22.31	20.32 20.26	421.5 420.7	4.906 4.906	5.944 5.940
		ELASTIC	JEF-1 ENDF/B-5	4543 1349	4.296 4.300	4.293 4.297	156.7 156.5	2.905 2.925	4.109 4.106
		INELAST.	JEF-1 ENDF/B-5	4543 1349			7.061 * 7.061 *	75.05-3 75.05-3	1.757 * 1.758 *
(N,2N)		JEF-1 ENDF/B-5	4543 1349			1.609 * 1.610 *	1.900 1.900	10.62-3 * 10.62-3 *	
(N,3N)		JEF-1 ENDF/B-5	4543 1349			67.43-3 * 67.43-3 *		907.7-9 * 908.6-9 *	
CAPTURE		JEF-1 ENDF/B-5	4543 1349	18.04 18.01	16.02 15.97	255.9 255.4		64.57-3 64.01-3	
(N,P)		JEF-1 ENDF/B-5	4543 1349			1.881-3 1.881-3	3.950-3 3.950-3	9.472-6 9.479-6	
(N,D)		JEF-1 ENDF/B-5	4543 1349			1.588-3 * 1.588-3 *	497.0-6 497.0-6	176.4-9 * 176.6-9 *	
(N,T)		JEF-1 ENDF/B-5	4543 1349			1.184-3 * 1.184-3 *	343.0-6 343.0-6	92.41-9 * 92.50-9 *	
(N,A)		JEF-1 ENDF/B-5	4543 1349			647.0-6 647.0-6	673.5-6 673.5-6	14.00-6 14.01-6	
54-XE-130		TOTAL	JEF-1 ENDF/B-5	4544 1350	10.50 10.48	9.798 9.763	116.0 115.6	4.877 4.922	5.967 5.963
		ELASTIC	JEF-1 ENDF/B-5	4544 1350	4.282 4.281	4.281 4.280	105.4 105.1	2.953 2.953	4.600 4.594
	INELAST.	JEF-1 ENDF/B-5	4544 1350			4.846 * 4.846 *	52.89-3 52.89-3	1.327 * 1.328 *	
	(N,2N)	JEF-1 ENDF/B-5	4544 1350			1.082 * 1.082 *	1.910 1.910	1.573-3 * 1.573-3 *	
	(N,3N)	JEF-1 ENDF/B-5	4544 1350			105.2-3 * 105.2-3 *		1.647-6 * 1.648-6 *	
	CAPTURE	JEF-1 ENDF/B-5	4544 1350	5.211 6.202	5.501 5.483	4.522 4.508		40.05-3 39.87-3	
	(N,P)	JEF-1 ENDF/B-5	4544 1350			3.195-3 * 3.195-3 *	5.850-3 5.850-3	8.329-6 * 8.334-6 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
54-XE-130	(N,D)	JEF-1 ENDF/B-5	4544 1350			1.156-3 * 1.156-3 *	340.0-6 340.0-6	147.4-9 * 147.5-9 *	
	(N,T)	JEF-1 ENDF/B-5	4544 1350			253.4-6 * 253.4-6 *	9.110-6 9.110-6	14.79-9 * 14.80-9 *	
	(N,A)	JEF-1 ENDF/B-5	4544 1350			118.4-6 118.4-6	149.0-6 149.0-6	650.0-9 650.2-9	
54-XE-131	TOTAL	JEF-1 ENDF/B-5	4545 1351	109.6 94.39	99.81 84.24	2.986+3 2.906+3	4.938 4.938	5.985 5.983	
	ELASTIC	JEF-1 ENDF/B-5	4545 1351	24.12 4.300	24.12 4.306	2.086+3 1.883+3	2.949 2.949	4.145 4.142	
	INELAST.	JEF-1 ENDF/B-5	4545 1351			6.029 * 6.029 *	32.07-3 32.07-3	1.800 * 1.800 *	
	(N,2N)	JEF-1 ENDF/B-5	4545 1351			1.726 * 1.726 *	1.950 1.950	16.39-3 * 16.40-3 *	
	(N,3N)	JEF-1 ENDF/B-5	4545 1351			117.2-3 * 117.2-3 *		1.964-6 * 1.966-6 *	
	CAPTURE	JEF-1 ENDF/B-5	4545 1351	85.47 90.09	75.69 79.94	891.3 1.015+3		24.92-3 24.63-3	
	(N,P)	JEF-1 ENDF/B-5	4545 1351			2.826-3 * 2.826-3 *	5.810-3 5.810-3	12.07-6 * 12.08-6 *	
	(N,D)	JEF-1 ENDF/B-5	4545 1351			962.2-6 * 962.2-6 *	277.0-6 277.0-6	109.2-9 * 109.3-9 *	
	(N,T)	JEF-1 ENDF/B-5	4545 1351			864.9-6 * 864.9-6 *	243.0-6 243.0-6	117.0-9 * 117.1-9 *	
	(N,A)	JEF-1 ENDF/B-5	4545 1351			313.6-6 313.6-6	375.0-6 375.0-6	4.799-6 4.802-6	
	54-XE-132	TOTAL	JEF-1 ENDF/B-5	4546 1352	4.771 4.740	4.714 4.690	126.8 126.5	4.925 4.952	6.023 6.015
		ELASTIC	JEF-1 ENDF/B-5	4546 1352	4.300 4.300	4.300 4.300	119.2 119.0	2.984 2.984	4.747 4.739
INELAST.		JEF-1 ENDF/B-5	4546 1352			4.523 * 4.523 *	4.956-3 4.956-3	1.252 * 1.252 *	
(N,2N)		JEF-1 ENDF/B-5	4546 1352			1.143 * 1.143 *	1.960 1.960	2.420-3 * 2.421-3 *	
(N,3N)		JEF-1 ENDF/B-5	4546 1352			160.9-3 * 160.9-3 *		3.302-6 * 3.305-6 *	
CAPTURE		JEF-1 ENDF/B-5	4546 1352	440.9-3 440.1-3	391.3-3 390.0-3	1.743 1.739		22.48-3 22.36-3	
(N,P)		JEF-1 ENDF/B-5	4546 1352			1.827-3 * 1.827-3 *	2.700-3 2.700-3	2.731-6 * 2.733-6 *	
(N,D)		JEF-1 ENDF/B-5	4546 1352			732.5-6 * 732.5-6 *	203.0-6 203.0-6	64.46-9 * 64.53-9 *	
(N,T)		JEF-1 ENDF/B-5	4546 1352			174.7-6 * 174.7-6 *	3.020-6 3.020-6	7.869-9 * 7.877-9 *	
(N,A)		JEF-1 ENDF/B-5	4546 1352			55.54-6 55.54-6	68.40-6 68.40-6	195.7-9 195.7-9	
54-XE-133		TOTAL	JEF-1 ENDF/B-5	4547 9643	194.8 194.8	174.1 176.2	482.9 622.0	4.671 4.667	5.756 5.763
	ELASTIC	JEF-1 ENDF/B-5	4547 9643	4.764 4.764	4.764 4.764	120.4 120.2	3.173 3.172	4.588 4.588	
	INELAST.	JEF-1 ENDF/B-5	4547 9643			4.974 * 4.974 *	1.496 1.496	1.151 * 1.151 *	
	CAPTURE	JEF-1 ENDF/B-5	4547 9643	190.0 190.0	168.4 168.5	356.4 356.5	2.533-3 2.533-3	8.860-3 8.857-3	
54-XE-134	TOTAL	JEF-1 ENDF/B-5	4548 1354	4.637 4.594	4.592 4.565	122.0 116.6	4.992 4.992	6.072 6.074	
	ELASTIC	JEF-1 ENDF/B-5	4548 1354	4.344 4.344	4.344 4.344	113.7 110.4	2.961 2.980	4.981 4.965	
	INELAST.	JEF-1 ENDF/B-5	4548 1354			3.968 * 3.968 *		1.093 * 1.093 *	
	(N,2N)	JEF-1 ENDF/B-5	4548 1354			1.200 * 1.200 *	2.010 2.010	3.376-3 * 3.377-3 *	
	(N,3N)	JEF-1 ENDF/B-5	4548 1354			207.0-3 * 207.0-3 *		5.166-6 * 5.169-6 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.
54-XE-134	CAPTURE	JEF-1	4548	251.4-3	222.2-3	766.1-3		12.30-3
		ENDF/B-5	1354	250.0-3	221.4-3	760.0-3		12.24-3
	(N,P)	JEF-1	4548			1.514-3 *	1.590-3	2.039-6 *
		ENDF/B-5	1354			1.514-3 *	1.590-3	2.040-6 *
	(N,D)	JEF-1	4548			468.6-6 *	124.0-6	52.59-9 *
		ENDF/B-5	1354			468.6-6 *	124.0-6	52.64-9 *
(N,T)	JEF-1	4548			138.5-6 *	2.150-6	6.087-9 *	
	ENDF/B-5	1354			138.5-6 *	2.150-6	6.092-9 *	
(N,A)	JEF-1	4548			37.04-6	51.80-6	98.33-9	
	ENDF/B-5	1354			37.04-6	51.80-6	98.34-9	
54-XE-135	TOTAL	JEF-1	4549	2.932+6	3.096+6	12.88+3	4.672	5.825
		ENDF/B-5	1294	2.934+6	3.096+6	12.88+3	4.671	5.824
	ELASTIC	JEF-1	4549	295.7+3	382.0+3	5.234+3	3.456	5.029
		ENDF/B-5	1294	295.9+3	382.0+3	5.231+3	3.454	5.027
	INELAST.	JEF-1	4549			3.822 *	1.214	796.2-3 *
		ENDF/B-5	1294			3.821 *	1.215	796.2-3 *
	CAPTURE	JEF-1	4549	2.636+6	2.714+6	7.645+3	2.384-3	824.0-6
		ENDF/B-5	1294	2.638+6	2.714+6	7.643+3	2.383-3	741.2-6
54-XE-136	TOTAL	JEF-1	4551	4.461	4.463	137.7	4.999	6.137
		ENDF/B-5	1356	4.461	5.278	138.4	4.999	6.136
	ELASTIC	JEF-1	4551	4.301	4.301	132.8	2.976	5.291
		ENDF/B-5	1356	4.301	4.301	132.8	2.976	5.288
	INELAST.	JEF-1	4551			3.511 *	323.3-3	843.1-3 *
		ENDF/B-5	1356			3.511 *	323.3-3	843.3-3 *
	(N,2N)	JEF-1	4551			1.066 *	1.700	4.307-3 *
		ENDF/B-5	1356			1.066 *	1.700	4.309-3 *
	(N,3N)	JEF-1	4551			260.0-3 *		8.642-6 *
		ENDF/B-5	1356			260.0-3 *		8.649-6 *
	CAPTURE	JEF-1	4551	160.0-3	141.8-3	124.0-3		1.047-3
		ENDF/B-5	1356	160.0-3	141.9-3	123.9-3		1.044-3
	(N,P)	JEF-1	4551			59.93-6 *	28.20-6	82.04-9 *
		ENDF/B-5	1356			59.93-6 *	28.20-6	82.09-9 *
(N,D)	JEF-1	4551			303.9-6 *	78.00-6	23.21-9 *	
	ENDF/B-5	1356			303.9-6 *	78.00-6	23.24-9 *	
(N,T)	JEF-1	4551			110.5-6 *	1.580-6	4.766-9 *	
	ENDF/B-5	1356			110.5-6 *	1.580-6	4.771-9 *	
(N,A)	JEF-1	4551			31.07-6	48.80-6	54.74-9	
	ENDF/B-5	1356			31.07-6	48.80-6	54.76-9	
55-CS-133	TOTAL	JEF-1	4553	32.52	29.97	541.4	5.037	5.978
		ENDF/B-5	1355	34.57	31.26	547.8	4.856	6.029
		RCN-3	550133	32.52	29.85	540.0	5.037	5.978 *
	ELASTIC	JEF-1	4553	3.491	3.530	128.2	2.942	4.292
		ENDF/B-5	1355	4.958	4.955	157.1	3.080	4.182
		RCN-3	550133	3.491	3.530 *	127.4	2.942	4.292 *
	INELAST.	JEF-1	4553			6.061 *	29.53-3	1.627 *
		ENDF/B-5	1355			6.764 *	159.4-3	1.782 *
		RCN-3	550133			6.062 *	29.53-3	1.627 *
	(N,2N)	JEF-1	4553			1.312 *	2.046	2.314-3 *
		ENDF/B-5	1355			1.051 *	1.600	1.862-3 *
		RCN-3	550133			733.3-3 *	2.046	2.269-3 *
	CAPTURE	JEF-1	4553	29.03	26.44	405.8	1.513-3	56.56-3
		ENDF/B-5	1355	29.61	26.31	382.9	1.491-3	61.61-3
		RCN-3	550133	29.03	26.32	405.8	1.513-3	56.56-3 *
	(N,P)	JEF-1	4553			9.334-3	15.05-3	84.68-6
		ENDF/B-5	1355			12.12-3	15.57-3	282.5-6
		RCN-3	550133			5.380-3 *	15.05-3	84.35-6 *
	(N,D)	JEF-1	4553			2.868-3 *	1.290-3	1.678-6 *
		RCN-3	550133			365.2-6 *	1.290-3	3.233-6 *
(N,T)	JEF-1	4553			40.39-6 *	21.60-6	12.10-9 *	
	RCN-3	550133			5.241-6 *	21.60-6	108.9-9 *	
(N,HE-3)	JEF-1	4553			6.779-6 *	2.499-6	1.230-9 *	
	RCN-3	550133			646.6-9 *	2.499-6	20.88-9 *	
(N,A)	JEF-1	4553			966.6-6	1.327-3	4.462-6	
	ENDF/B-5	1355			952.1-6	1.220-3	3.602-6	
	RCN-3	550133			368.9-6 *	1.327-3	4.418-6 *	
55-CS-134	TOTAL	JEF-1	4554	144.8	129.2	389.9	4.671	5.783
		ENDF/B-5	9663	144.8	132.3	406.4	4.667	5.786

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.
55-CS-134	ELASTIC	JEF-1	4554	4.788	4.788	168.9	3.179	3.981
		ENDF/B-5	9663	4.788	4.788	168.7	3.178	3.982
	INELAST.	JEF-1	4554			8.457 *	1.490	1.766 *
		ENDF/B-5	9663			8.457 *	1.490	1.766 *
CAPTURE	JEF-1	4554	140.0	124.1	211.4	2.700-3	31.85-3	
	ENDF/B-5	9663	140.0	124.1	211.3	2.699-3	31.83-3	
55-CS-135	TOTAL	JEF-1	4555	14.23	13.15	219.0	4.934	6.021
		ENDF/B-5	9665	13.51	13.69	194.6	4.668	5.818
	ELASTIC	JEF-1	4555	5.154	5.152	149.6	2.896	4.520
		ENDF/B-5	9665	4.812	4.812	120.7	3.201	4.687
	INELAST.	JEF-1	4555			5.375 *	228.1-3	1.470 *
		ENDF/B-5	9665			5.101 *	1.468	1.119 *
	(N,2N)	JEF-1	4555			1.232 *	1.806	1.316-3 *
CAPTURE	JEF-1	4555	9.075	8.002	62.92	918.1-6	27.11-3	
	ENDF/B-5	9665	8.700	7.713	61.83	2.209-3	5.635-3	
(N,P)	JEF-1	4555			367.9-6 *	345.6-6	931.6-9 *	
(N,A)	JEF-1	4555			136.3-6	159.2-6	81.40-9	
55-CS-136	TOTAL	JEF-1	4556	5.149	5.029	247.7	4.643	5.817
		ENDF/B-5	9667	5.149	5.000	245.5	4.668	5.837
	ELASTIC	JEF-1	4556	3.843	3.843	202.8	3.181	4.752
		ENDF/B-5	9667	3.844	3.843	202.3	3.199	4.739
INELAST.	JEF-1	4556			4.711 *	1.470	1.053 *	
	ENDF/B-5	9667			4.711 *	1.470	1.053 *	
CAPTURE	JEF-1	4556	1.305	1.160	40.02	2.552-3	27.29-3	
	ENDF/B-5	9667	1.305	1.156	39.96	2.547-3	27.19-3	
55-CS-137	TOTAL	JEF-1	4557	2.421	2.405	117.1	4.980	6.076
		ENDF/B-5	9669	4.969	5.048	112.0	4.672	5.870
	ELASTIC	JEF-1	4557	2.279	2.279	111.2	2.924	5.062
		ENDF/B-5	9669	4.859	4.859	106.7	3.280	4.869
	INELAST.	JEF-1	4557			3.993 *	85.32-3	1.001 *
ENDF/B-5		9669			4.467 *	1.391	993.5-3 *	
(N,2N)	JEF-1	4557			1.332 *	1.969	2.202-3 *	
CAPTURE	JEF-1	4557	141.9-3	125.8-3	611.0-3	895.2-6	6.811-3	
	ENDF/B-5	9669	110.0-3	97.53-3	485.9-3	1.790-3	1.710-3	
56-BA-134	TOTAL	JEF-1	4564	6.336	6.093	163.4	4.667	5.786
		ENDF/B-5	9684	6.336	6.093	163.4	4.667	5.786
	ELASTIC	JEF-1	4564	4.177	4.177	134.8	3.197	4.723
		ENDF/B-5	9684	4.177	4.177	134.8	3.197	4.723
INELAST.	JEF-1	4564			4.630 *	1.472	1.010 *	
	ENDF/B-5	9684			4.630 *	1.472	1.010 *	
CAPTURE	JEF-1	4564	2.159	1.915	23.93	2.400-3	37.67-3	
	ENDF/B-5	9684	2.159	1.915	23.93	2.400-3	37.67-3	
56-BA-135	TOTAL	JEF-1	4565	9.313	8.652	285.1	4.668	5.810
		ENDF/B-5	9685	9.313	8.652	285.1	4.668	5.810
	ELASTIC	JEF-1	4565	3.490	3.489	178.6	3.189	4.361
		ENDF/B-5	9685	3.490	3.489	178.6	3.189	4.361
INELAST.	JEF-1	4565			5.706 *	1.479	1.395 *	
	ENDF/B-5	9685			5.706 *	1.479	1.395 *	
CAPTURE	JEF-1	4565	5.823	5.163	100.7	2.848-3	43.86-3	
	ENDF/B-5	9685	5.823	5.163	100.7	2.848-3	43.86-3	
56-BA-136	TOTAL	JEF-1	4566	5.234	5.180	104.6	4.643	5.826
		ENDF/B-5	9687	5.195	5.149	102.8	4.668	5.836
	ELASTIC	JEF-1	4566	4.785	4.785	98.80	3.196	4.941
		ENDF/B-5	9687	4.785	4.785	96.55	3.214	4.945
INELAST.	JEF-1	4566			4.219 *	1.455	863.2-3 *	
	ENDF/B-5	9687			4.219 *	1.455	863.2-3 *	
CAPTURE	JEF-1	4566	412.9-3	365.3-3	1.967	2.356-3	14.64-3	
	ENDF/B-5	9687	410.1-3	363.6-3	1.959	2.350-3	14.62-3	
56-BA-137	TOTAL	JEF-1	4567	9.707	9.117	123.9	4.639	5.856
		ENDF/B-5	9689	9.644	9.067	123.4	4.672	5.862
	ELASTIC	JEF-1	4567	4.544	4.544	114.1	3.187	4.819
ENDF/B-5		9689	4.544	4.544	113.7	3.208	4.823	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.
56-BA-137	INELAST.	JEF-1	4567			4.687 *	1.462	1.019 *
		ENDF/B-5	9689			4.687 *	1.462	1.019 *
	CAPTURE	JEF-1	4567	5.134	4.542	4.973	2.700-3	9.151-3
		ENDF/B-5	9689	5.101	4.522	4.953	2.695-3	9.120-3
56-BA-138	TOTAL	JEF-1	4568	7.500	7.460	109.9	4.998	6.094
		ENDF/B-5	1353	7.353	7.314	117.1	5.000	6.287
		ENDL-82	1047	7.351	7.310 *	117.0	4.999	6.288 *
		JENDL-1	5638	4.054	4.016	76.68	4.994	6.081 *
	ELASTIC	JEF-1	4568	7.149	7.149	105.0	2.929	5.279
		ENDF/B-5	1353	7.000	7.000	112.0	2.971	5.510
		ENDL-82	1047	7.000	7.000 *	112.0	2.971	5.512 *
		JENDL-1	5638	3.709	3.709	72.49	2.928	5.321 *
	INELAST.	JEF-1	4568			3.468 *	80.03-3	810.4-3 *
		ENDF/B-5	1353			3.499 *	498.3-3	768.5-3 *
		ENDL-82	1047			3.499 *	498.3-3	768.4-3 *
		JENDL-1	5638			4.010 *	2.066	756.5-3 *
	(N,2N)	JEF-1	4568			1.338 *	1.988	2.206-3 *
		ENDF/B-5	1353			972.2-3 *	1.500	3.902-3 *
		ENDL-82	1047			972.2-3 *	1.500	3.901-3 *
	(N,3N)	ENDF/B-5	1353			198.5-3 *		7.336-6 *
		ENDL-82	1047			198.5-3 *		7.334-6 *
	CAPTURE	JEF-1	4568	351.2-3	311.5-3	183.9-3	977.9-6	1.619-3
		ENDF/B-5	1353	350.9-3	310.5-3	317.9-3	1.000-3	2.346-3
		ENDL-82	1047	350.9-3	310.5-3 *	316.9-3	50.00-6	2.324-3 *
		JENDL-1	5638	344.5-3	305.5-3	185.5-3 *	6.046-6	2.164-3 *
	(N,P)	ENDF/B-5	1353			2.057-3 *	1.833-3	11.48-6 *
		ENDL-82	1047			2.057-3 *	1.833-3	11.48-6 *
	(N,A)	ENDF/B-5	1353			34.02-3	27.76-3	1.766-3
ENDL-82		1047			34.02-3 *	27.76-3	1.766-3 *	
56-BA-140	TOTAL	JEF-1	4560	3.375	3.193	431.2	5.034	6.159
		ENDF/B-5	9693	6.530	6.841	128.9	4.677	5.941
	ELASTIC	JEF-1	4560	1.775	1.775	411.9	2.939	5.284
		ENDF/B-5	9693	4.930	4.930	98.13	4.619	5.909
	INELAST.	JEF-1	4560			2.893 *	2.046-3	841.9-3 *
		ENDF/B-5	9693			151.2-3 *	56.14-3	28.98-3 *
	(N,2N)	JEF-1	4560			1.321 *	952.9-3	22.11-3 *
	(N,3N)	JEF-1	4560			701.2-3 *	1.139	188.9-6 *
	CAPTURE	JEF-1	4560	1.600	1.418	14.36	970.6-6	6.597-3
		ENDF/B-5	9693	1.600	1.417	12.77	1.884-3	1.742-3
57-LA-139	TOTAL	JEF-1	4579	16.96	16.15	151.2	5.046	6.090
		ENDF/B-5	9707	21.47	20.44	152.8	4.675	5.923
		JENDL-1	5739	18.80	17.69	119.1	5.011	6.078 *
		RCN-3	570139	16.96	16.11	149.7	5.046	6.090 *
	ELASTIC	JEF-1	4579	7.957	7.960	133.9	2.966	4.839
		ENDF/B-5	9707	12.45	12.44	135.2	3.228	4.619
		JENDL-1	5739	9.090	9.084	101.1	2.933	4.714 *
		RCN-3	570139	7.957	7.965 *	133.0	2.966	4.839 *
	INELAST.	JEF-1	4579			4.730 *	55.66-3	1.243 *
		ENDF/B-5	9707			5.507 *	1.443	1.296 *
		JENDL-1	5739			5.761 *	2.078	1.352 *
		RCN-3	570139			4.729 *	55.66-3	1.244 *
	(N,2N)	JEF-1	4579			1.329 *	2.018	2.544-3 *
		RCN-3	570139			744.1-3 *	2.018	2.499-3 *
	CAPTURE	JEF-1	4579	9.007	8.185	11.23	708.9-6	5.425-3
		ENDF/B-5	9707	9.018	7.996	12.04	967.0-6	6.494-3
		JENDL-1	5739	9.712	8.611	12.24	5.878-6	7.938-3 *
		RCN-3	570139	9.007	8.145 *	11.23	708.9-6	5.424-3 *
	(N,P)	JEF-1	4579			4.324-3 *	3.894-3	9.929-6 *
		RCN-3	570139			1.064-3 *	3.894-3	10.43-6 *
	(N,D)	JEF-1	4579			875.5-6 *	394.2-6	478.0-9 *
		RCN-3	570139			91.63-6 *	394.2-6	685.5-9 *
	(N,T)	JEF-1	4579			44.65-6 *	20.79-6	15.49-9 *
		RCN-3	570139			4.828-6 *	20.79-6	45.17-9 *
(N,HE-3)	JEF-1	4579			5.940-6 *	2.463-6	1.510-9 *	
	RCN-3	570139			572.1-9 *	2.463-6	7.484-9 *	
(N,A)	JEF-1	4579			1.673-3	1.362-3	4.575-6	
	RCN-3	570139			379.8-6 *	1.362-3	4.511-6 *	
57-LA-140	TOTAL	JEF-1	4570	7.630	7.353	320.0	4.678	5.945
		ENDF/B-5	9708	7.630	7.989	324.2	4.677	5.946

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.
57-LA-140	ELASTIC	JEF-1	4570	4.930	4.930	246.0	3.004	4.153
		ENDF/B-5	9708	4.930	4.930	245.9	3.002	4.155
	INELAST.	JEF-1	4570			7.959 *	1.670	1.748 *
		ENDF/B-5	9708			7.959 *	1.670	1.748 *
CAPTURE	JEF-1	4570	2.700	2.393	65.14	2.331-3	33.57-3	
		ENDF/B-5	9708	2.700	2.394	65.11	2.330-3	33.58-3
58-CE-140	TOTAL	JEF-1	4580	3.840	3.774	77.73	4.677	5.945
		ENDF/B-5	9724	5.500	5.713	111.5	4.677	5.951
		JENDL-1	5840	3.530	3.481	141.1	5.028	6.166 *
	ELASTIC	JEF-1	4580	3.264	3.264	73.99	3.247	5.387
		ENDF/B-5	9724	4.930	4.930	106.1	3.247	5.393
		JENDL-1	5840	2.960	2.960	136.3	2.937	5.432 *
	INELAST.	JEF-1	4580			3.338 *	1.427	523.2-3 *
		ENDF/B-5	9724			3.338 *	1.427	523.2-3 *
		JENDL-1	5840			3.929 *	2.090	708.8-3 *
	CAPTURE	JEF-1	4580	576.1-3	510.8-3	337.2-3	2.142-3	14.85-3
		ENDF/B-5	9724	570.0-3	505.4-3	445.9-3	2.142-3	14.88-3
		JENDL-1	5840	570.0-3	505.4-3	778.6-3 *	15.48-6	23.61-3 *
58-CE-141	TOTAL	JEF-1	4581	36.12	32.53	420.4	5.051	6.179
		ENDF/B-5	9725	33.95	33.52	321.8	4.679	5.974
	ELASTIC	JEF-1	4581	3.400	3.400	243.2	2.945	5.104
		ENDF/B-5	9725	4.953	4.953	280.0	3.242	5.062
	INELAST.	JEF-1	4581			3.329 *	7.731-3	976.7-3 *
		ENDF/B-5	9725			4.144 *	1.434	851.5-3 *
	(N, 2N)	JEF-1	4581			1.890 *	2.098	16.36-3 *
	CAPTURE	JEF-1	4581	32.72	29.01	169.7	1.467-3	77.52-3
ENDF/B-5		9725	29.00	25.71	24.10	2.498-3	44.72-3	
58-CE-142	TOTAL	JEF-1	4582	4.670	4.596	232.7	5.070	6.206
		ENDF/B-5	9726	5.927	6.197	138.8	4.682	6.010
		JENDL-1	5842	1.312	1.205	216.5	4.841	6.447 *
	ELASTIC	JEF-1	4582	3.770	3.770	225.8	2.949	4.960
		ENDF/B-5	9726	4.977	4.977	132.5	3.339	5.409
		JENDL-1	5842	349.1-3	349.1-3	210.2	2.750	5.267 *
	INELAST.	JEF-1	4582			4.132 *	21.84-3	1.218 *
		ENDF/B-5	9726			3.319 *	1.340	562.3-3 *
		JENDL-1	5842			5.038 *	2.086	1.149 *
	(N, 2N)	JEF-1	4582			1.234 *	1.796	8.243-3 *
	(N, 3N)	JEF-1	4582			441.4-3 *	300.0-3	44.13-6 *
	CAPTURE	JEF-1	4582	900.0-3	798.0-3	1.015	1.061-3	17.25-3
ENDF/B-5		9726	950.0-3	842.3-3	831.3-3	2.045-3	15.72-3	
JENDL-1		5842	962.8-3	854.1-3	1.222 *	17.99-6	22.47-3 *	
58-CE-143	TOTAL	JEF-1	4583	11.00	10.37	304.6	4.687	6.020
		ENDF/B-5	9727	11.00	11.45	312.1	4.686	6.034
	ELASTIC	JEF-1	4583	5.000	5.000	258.0	3.264	5.065
		ENDF/B-5	9727	5.000	5.000	257.8	3.253	5.066
	INELAST.	JEF-1	4583			4.360 *	1.429	937.3-3 *
		ENDF/B-5	9727			4.360 *	1.429	937.3-3 *
CAPTURE	JEF-1	4583	6.000	5.318	41.56	2.406-3	12.68-3	
	ENDF/B-5	9727	6.000	5.320	41.54	2.405-3	12.68-3	
58-CE-144	TOTAL	JEF-1	4584	4.518	4.422	307.4	5.102	6.302
		ENDF/B-5	9728	6.024	6.298	136.2	4.689	6.069
	ELASTIC	JEF-1	4584	3.390	3.390	296.7	2.958	4.449
		ENDF/B-5	9728	5.024	5.024	126.4	3.274	5.571
	INELAST.	JEF-1	4584			5.871 *	6.114-3	1.832 *
		ENDF/B-5	9728			3.239 *	1.412	470.0-3 *
	(N, 2N)	JEF-1	4584			1.240 *	1.412	11.98-3 *
	(N, 3N)	JEF-1	4584			600.9-3 *	723.4-3	103.7-6 *
CAPTURE	JEF-1	4584	1.128	1.000	2.861	945.6-6	7.696-3	
	ENDF/B-5	9728	1.000	886.6-3	2.067	1.933-3	10.89-3	
59-PR-141	TOTAL	JEF-1	4591	13.35	12.73	260.6	5.060	6.138
		ENDF/B-5	9742	13.67	12.37	333.3	5.020	6.469
		JENDL-1	5941	12.33	11.05	259.5	5.044	6.169 *
		RCN-3	590141	13.35	12.68	259.1	5.060	6.139 *
	ELASTIC	JEF-1	4591	1.863	2.254	236.1	2.971	4.717
		ENDF/B-5	9742	2.171	2.171	307.4	2.805	5.067
		JENDL-1	5941	819.8-3	819.7-3	234.4	2.942	4.752 *
		RCN-3	590141	1.863	2.253 *	235.2	2.971	4.717 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.	
59-PR-141	INELAST.	JEF-1	4591			5.436 *	99.91-3	1.405 *	
		ENDF/B-5	9742			5.674 *	276.7-3	1.381 *	
		JENDL-1	5941			6.080 *	2.103	1.396 *	
		RCN-3	590141			5.433 *	98.65-3	1.406 *	
	(N,2N)	JEF-1	4591			1.158 *	1.976	1.452-3 *	
		ENDF/B-5	9742			1.141 *	1.922	1.338-3 *	
		RCN-3	590141			607.8-3 *	1.976	1.408-3 *	
	(N,3N)	ENDF/B-5	9742			24.18-3 *		233.3-9 *	
	(N,N+A)	ENDF/B-5	9742			669.0-6 *	548.1-6	666.0-9 *	
	(N,N+P)	ENDF/B-5	9742			755.8-6 *	381.5-6	832.2-9 *	
	CAPTURE	JEF-1	4591		11.49	10.48	17.88	2.727-3	15.36-3
		ENDF/B-5	9742		11.50	10.20	19.05	1.001-3	17.06-3
		JENDL-1	5941		11.51	10.20	18.93	4.359-6	16.73-3 *
		RCN-3	590141		11.49	10.43	17.88	2.727-3	15.36-3 *
	(N,P)	JEF-1	4591				7.226-3	8.392-3	29.79-6
		ENDF/B-5	9742		417.0-9	432.1-9	3.896-3	5.779-3	14.23-6
		RCN-3	590141				2.565-3 *	8.392-3	29.51-6 *
	(N,D)	JEF-1	4591				1.588-3 *	811.2-6	1.067-6 *
		ENDF/B-5	9742				7.214-3 *	6.375-3	3.391-6 *
		RCN-3	590141				189.1-6 *	811.2-6	1.256-6 *
(N,T)	JEF-1	4591				69.88-6 *	24.70-6	18.99-9 *	
	ENDF/B-5	9742				2.911-3 *	1.201-3	303.2-9 *	
	RCN-3	590141				5.733-6 *	24.70-6	53.19-9 *	
(N,HE-3)	JEF-1	4591				6.186-6 *	2.935-6	2.059-9 *	
	ENDF/B-5	9742				122.6-6 *		2.281-9 *	
	RCN-3	590141				671.5-9 *	2.935-6	5.999-9 *	
(N,A)	JEF-1	4591				2.267-3	2.671-3	10.69-6	
	ENDF/B-5	9742		18.08-6	19.02-6	3.784-3	4.703-3	67.53-6	
	RCN-3	590141				792.0-6 *	2.671-3	10.59-6 *	
59-PR-142	TOTAL	JEF-1	4592	24.98	22.76	529.1	4.683	5.993	
		ENDF/B-5	9743	24.98	24.68	538.3	4.682	6.004	
	ELASTIC	JEF-1	4592	4.977	4.977	377.8	3.255	4.794	
		ENDF/B-5	9743	4.977	4.977	377.6	3.254	4.794	
	INELAST.	JEF-1	4592			4.860 *	1.424	1.165 *	
		ENDF/B-5	9743			4.860 *	1.424	1.165 *	
	CAPTURE	JEF-1	4592	20.00	17.73	145.0	2.567-3	28.27-3	
		ENDF/B-5	9743	20.00	17.73	144.9	2.565-3	28.26-3	
59-PR-143	TOTAL	JEF-1	4593	94.00	84.16	621.9	4.687	6.031	
		ENDF/B-5	9745	94.00	87.78	639.6	4.686	6.033	
	ELASTIC	JEF-1	4593	5.000	5.000	424.6	3.614	4.821	
		ENDF/B-5	9745	5.000	5.000	424.4	3.613	4.823	
	INELAST.	JEF-1	4593			5.089 *	1.070	1.152 *	
		ENDF/B-5	9745			5.089 *	1.070	1.152 *	
	CAPTURE	JEF-1	4593	89.00	78.88	189.5	2.243-3	55.96-3	
		ENDF/B-5	9745	89.00	78.92	189.4	2.243-3	55.95-3	
60-ND-142	TOTAL	JEF-1	4602	23.27	21.15	114.9	4.682	6.001	
		ENDF/B-5	9763	23.27	21.15	114.9	4.682	6.001	
		RCN-3	600142	28.61	26.86	141.0	5.070	6.211 *	
	ELASTIC	JEF-1	4602	4.568	4.568	102.5	3.315	5.384	
		ENDF/B-5	9763	4.568	4.568	102.5	3.315	5.384	
		RCN-3	600142	9.950	9.864 *	131.5	2.973	5.443 *	
	INELAST.	JEF-1	4602			3.413 *	1.364	582.2-3 *	
		ENDF/B-5	9763			3.413 *	1.364	582.2-3 *	
		RCN-3	600142			3.433 *	76.54-3	728.6-3 *	
	(N,2N)	RCN-3	600142			567.2-3 *	1.999	1.090-3 *	
	CAPTURE	JEF-1	4602	18.70	16.58	8.928	2.415-3	24.40-3	
		ENDF/B-5	9763	18.70	16.58	8.927	2.415-3	24.40-3	
		RCN-3	600142	18.66	16.99	5.496 *	1.269-3	38.86-3 *	
	(N,P)	RCN-3	600142			2.773-3 *	11.52-3	18.51-6 *	
	(N,D)	RCN-3	600142			310.5-6 *	1.121-3	1.053-6 *	
	(N,T)	RCN-3	600142			5.997-6 *	26.71-6	12.31-9 *	
	(N,HE-3)	RCN-3	600142			718.9-9 *	3.198-6	2.286-9 *	
	(N,A)	RCN-3	600142			1.976-3 *	6.967-3	23.94-6 *	
	60-ND-143	TOTAL	JEF-1	4603	392.2	354.2	757.7	4.948	6.352
			ENDF/B-5	9764	395.2	356.4	824.1	5.017	6.644
RCN-3			600143	404.6	368.3	720.4	5.068	6.268 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.	
60-ND-143	ELASTIC	JEF-1	4603	73.53	73.01	626.0	2.790	5.157	
		ENDF/B-5	9764	68.90	68.41	690.7	3.004	5.607	
		RCN-3	600143	78.86	71.94	588.3	2.975	5.217 *	
	INELAST.	JEF-1	4603			3.605 *	18.58-3	1.089 *	
		ENDF/B-5	9764			2.782 *	1.000-3	950.8-3 *	
		RCN-3	600143			3.062 *		945.4-3 *	
	(N,2N)	JEF-1	4603			2.080 *	2.137	21.43-3 *	
		ENDF/B-5	9764			1.908 *	1.991	23.86-3 *	
		RCN-3	600143			1.496 *	2.077	23.22-3 *	
	(N,3N)	ENDF/B-5	9764			88.17-3 *		1.343-6 *	
	(N,N+A)	ENDF/B-5	9764	1.420-6	1.490-6	1.017-3	729.9-6	7.715-6	
	(N,N+P)	ENDF/B-5	9764			330.5-6 *	188.8-6	357.7-9 *	
	CAPTURE	JEF-1	4603			318.7	281.1	127.2	1.072-3
		ENDF/B-5	9764			326.3	288.0	131.7	2.895-3
		RCN-3	600143			325.7	296.3	127.6	1.191-3
	(N,P)	ENDF/B-5	9764					3.876-3 *	
(N,D)	ENDF/B-5	9764					3.640-3 *		
(N,T)	ENDF/B-5	9764					4.340-3 *		
(N,HE-3)	ENDF/B-5	9764					133.9-6 *		
(N,A)	ENDF/B-5	9764					19.13-6		
60-ND-144	TOTAL	JEF-1	4604	4.958	4.154	684.7	5.073	6.318	
		ENDF/B-5	9765			638.8	4.689	6.070	
		RCN-3	600144	4.958	4.138 *	683.2	5.073	6.319 *	
	ELASTIC	JEF-1	4604			1.369	890.3-3	674.7	2.977
		ENDF/B-5	9765					628.9	3.327
		RCN-3	600144			1.369	890.2-3 *	673.7	2.977
	INELAST.	JEF-1	4604					4.231 *	1.238 *
		ENDF/B-5	9765					4.346 *	969.5-3 *
		RCN-3	600144					4.235 *	1.240 *
	(N,2N)	JEF-1	4604					1.618 *	2.079
		RCN-3	600144					1.035 *	2.079
	CAPTURE	JEF-1	4604			3.589	3.264	4.214	914.0-6
		ENDF/B-5	9765			3.611	3.198	5.502	1.645-3
		RCN-3	600144			3.589	3.248 *	4.214 *	914.0-6
	(N,P)	JEF-1	4604					10.20-3 *	6.641-3
		RCN-3	600144					1.555-3 *	6.641-3
(N,D)	JEF-1	4604					1.663-3 *	652.2-6	
	RCN-3	600144					233.2-6 *	652.2-6	
(N,T)	JEF-1	4604					67.48-6 *	23.94-6	
	RCN-3	600144					5.379-6 *	23.94-6	
(N,HE-3)	JEF-1	4604					8.077-6 *	2.866-6	
	RCN-3	600144					640.6-9 *	2.866-6	
(N,A)	JEF-1	4604					11.55-3	8.385-3	
	RCN-3	600144					2.128-3 *	8.385-3	
60-ND-145	TOTAL	JEF-1	4605	56.00	53.27	812.9	5.069	6.352	
		ENDF/B-5	9766	42.91	38.17	827.8	5.078	6.824	
		RCN-3	600145	56.00	53.09	811.5	5.069	6.352 *	
	ELASTIC	JEF-1	4605			13.81	13.90	571.8	2.978
		ENDF/B-5	9766			891.8-3	889.6-3	587.1	2.870
		RCN-3	600145			13.81	13.89	571.0	2.978
	INELAST.	JEF-1	4605					5.530 *	1.672 *
		ENDF/B-5	9766					5.562 *	150.0-3
		RCN-3	600145					5.534 *	1.673 *
	(N,2N)	JEF-1	4605					2.249 *	2.081
		ENDF/B-5	9766					1.787 *	2.044
		RCN-3	600145					1.661 *	2.081
	(N,3N)	ENDF/B-5	9766					382.8-3 *	
	(N,N+A)	ENDF/B-5	9766	510.2-9	532.2-9	859.0-6	705.0-6	3.331-6	
	(N,N+P)	ENDF/B-5	9766					337.9-6 *	
	CAPTURE	JEF-1	4605			42.19	39.38	233.3	1.002-3
ENDF/B-5		9766			42.02	37.28	233.0	3.891-3	
RCN-3		600145			42.19	39.20	233.3	1.002-3	
(N,P)	JEF-1	4605					8.351-3 *	5.847-3	
	ENDF/B-5	9766					2.066-3 *	2.877-3	
	RCN-3	600145					1.449-3 *	5.847-3	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.
60-ND-145	(N,D)	JEF-1	4605			988.0-6 *	593.7-6	541.8-9 *
		ENDF/B-5	9766			2.391-3 *	995.5-6	256.7-9 *
		RCN-3	600145			141.3-6 *	593.7-6	499.4-9 *
	(N,T)	JEF-1	4605			50.62-6 *	22.86-6	17.55-9 *
		ENDF/B-5	9766			3.128-3 *	1.482-3	414.4-9 *
		RCN-3	600145			5.199-6 *	22.86-6	15.54-9 *
	(N,HE-3)	JEF-1	4605			6.106-6 *	2.630-6	1.530-9 *
		ENDF/B-5	9766			45.42-6 *		
		RCN-3	600145			597.2-9 *	2.630-6	1.282-9 *
	(N,A)	JEF-1	4605			11.75-3	2.193-3	9.055-6
		ENDF/B-5	9766	13.95-6	14.67-6	3.960-3	4.210-3	90.72-6
		RCN-3	600145			695.6-6 *	2.193-3	8.609-6 *
60-ND-146	TOTAL	JEF-1	4606	8.416	8.177	216.0	5.072	6.373
		ENDF/B-5	9767	3.099	2.942	208.3	5.080	6.817
		JENDL-1	6046	1.818	1.667	175.8	5.120	6.392 *
		RCN-3	600146	8.416	8.171 *	214.6	5.072	6.374 *
	ELASTIC	JEF-1	4606	7.012	6.903	206.6	2.980	4.842
		ENDF/B-5	9767	1.698	1.698	198.1	2.828	5.166
		JENDL-1	6046	417.2-3	417.1-3	167.2	2.962	4.974 *
		RCN-3	600146	7.012	6.903 *	205.7	2.980	4.841 *
	INELAST.	JEF-1	4606			4.936 *		1.495 *
		ENDF/B-5	9767			5.413 *	173.6-3	1.593 *
		JENDL-1	6046			5.743 *	2.158	1.386 *
		RCN-3	600146			4.940 *		1.496 *
(N,2N)	JEF-1	4606			1.709 *	2.084	7.699-3 *	
	ENDF/B-5	9767			1.265 *	2.039	8.420-3 *	
	RCN-3	600146			1.117 *	2.084	7.652-3 *	
(N,3N)	ENDF/B-5	9767			448.7-3 *	30.08-3	28.73-6 *	
(N,N+A)	ENDF/B-5	9767	1.058-6	1.097-6	1.062-3	1.034-3	3.671-6	
(N,N+P)	ENDF/B-5	9767			193.7-6 *	74.82-6	49.90-9 *	
CAPTURE	JEF-1	4606	1.404	1.274	2.818	894.3-6	28.94-3	
	ENDF/B-5	9767	1.400	1.242	3.098	1.715-3	46.48-3	
	JENDL-1	6046	1.401	1.242	2.921 *	58.36-6	27.93-3 *	
	RCN-3	600146	1.404	1.268 *	2.817 *	894.3-6	28.94-3 *	
(N,P)	JEF-1	4606			8.744-3 *	3.555-3	4.809-6 *	
	ENDF/B-5	9767			1.000-3 *	860.4-6	468.8-9 *	
	RCN-3	600146			824.8-6 *	3.555-3	4.510-6 *	
(N,D)	JEF-1	4606			1.320-3 *	348.7-6	521.5-9 *	
	ENDF/B-5	9767			1.674-3 *	527.1-6	141.8-9 *	
	RCN-3	600146			131.9-6 *	348.7-6	476.2-9 *	
(N,T)	JEF-1	4606			44.71-6 *	21.53-6	11.69-9 *	
	ENDF/B-5	9767			1.295-3 *	419.7-6	78.26-9 *	
	RCN-3	600146			4.835-6 *	21.53-6	9.987-9 *	
(N,HE-3)	JEF-1	4606			1.439-6 *	552.6-9		
	ENDF/B-5	9767			19.59-6 *			
	RCN-3	600146			124.6-9 *	552.6-9		
(N,A)	JEF-1	4606			4.045-3	2.796-3	6.362-6	
	ENDF/B-5	9767	11.96-6	12.57-6	2.040-3	2.472-3	44.09-6	
	RCN-3	600146			712.6-6 *	2.796-3	6.208-6 *	
60-ND-147	TOTAL	JEF-1	4607	54.09	48.72	1.157+3	4.703	6.151
		ENDF/B-5	9768	54.09	50.79	1.207+3	4.702	6.153
		RCN-3	600147	509.5	458.8	9.246+3 *	5.220	6.449 *
	ELASTIC	JEF-1	4607	5.093	5.093	497.5	3.282	4.349
		ENDF/B-5	9768	5.093	5.093	497.2	3.281	4.351
		RCN-3	600147	5.047	5.139 *	1.748+3 *	3.073	4.401 *
	INELAST.	JEF-1	4607			7.530 *	1.416	1.728 *
		ENDF/B-5	9768			7.530 *	1.416	1.728 *
		RCN-3	600147			6.912 *		1.914 *
	CAPTURE	JEF-1	4607	49.00	43.43	648.8	2.595-3	69.67-3
		ENDF/B-5	9768	49.00	43.45	648.5	2.593-3	69.64-3
		RCN-3	600147	504.4	453.6	7.489+3 *	963.4-6	80.98-3 *
60-ND-148	TOTAL	JEF-1	4608	3.276	4.041	620.9	5.241	6.462
		ENDF/B-5	9769	2.210	1.924	625.5	5.142	6.767
		JENDL-1	6048	3.415	3.147	633.0	5.289	6.695 *
		RCN-3	600148	3.276	4.031 *	619.5	5.241	6.463 *
	ELASTIC	JEF-1	4608	803.6-3	1.791	593.9	3.086	4.823
		ENDF/B-5	9769			598.3	2.844	4.982
		JENDL-1	6048	915.6-3	915.3-3	606.2	3.063	5.122 *
		RCN-3	600148	803.6-3	1.790 *	593.0	3.086	4.823 *
	INELAST.	JEF-1	4608			5.301 *		1.593 *
		ENDF/B-5	9769			5.924 *	182.0-3	1.713 *
		JENDL-1	6048			6.231 *	2.226	1.512 *
		RCN-3	600148			5.304 *		1.594 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.
60-ND-148	(N, 2N)	JEF-1	4608			1.853 *	2.147	10.51-3 *
		ENDF/B-5	9769			1.210 *	1.752	9.262-3 *
		RCN-3	600148			1.249 *	2.147	10.47-3 *
	(N, 3N)	ENDF/B-5	9769			581.4-3 *	361.1-3	59.46-6 *
	(N, N+A)	ENDF/B-5	9769	1.227-6	1.269-6	827.2-6	769.4-6	3.475-6
	(N, N+P)	ENDF/B-5	9769			131.6-6 *	41.77-6	24.42-9 *
	CAPTURE	JEF-1	4608	2.473	2.251	19.95	873.8-6	35.46-3
		ENDF/B-5	9769	2.509	2.223	19.53	626.9-6	58.50-3
		JENDL-1	6048	2.499	2.218	20.47	306.7-6	57.40-3 *
		RCN-3	600148	2.473	2.240 *	19.95	873.8-6	35.53-3 *
	(N, P)	JEF-1	4608			7.551-3 *	2.601-3	3.018-6 *
		ENDF/B-5	9769			513.2-6 *	361.8-6	162.2-9 *
		RCN-3	600148			602.0-6 *	2.601-3	2.771-6 *
	(N, D)	JEF-1	4608			729.7-6 *	259.0-6	330.7-9 *
ENDF/B-5		9769			991.5-6 *	246.9-6	67.95-9 *	
RCN-3		600148			100.6-6 *	259.0-6	303.7-9 *	
(N, T)	JEF-1	4608			47.36-6 *	19.42-6	10.78-9 *	
	ENDF/B-5	9769			878.3-6 *	267.7-6	49.90-9 *	
	RCN-3	600148			4.362-6 *	19.42-6	9.086-9 *	
(N, HE-3)	JEF-1	4608			3.187-6 *	367.2-9		
	ENDF/B-5	9769			2.355-6 *			
	RCN-3	600148			82.26-9 *	367.2-9		
(N, A)	JEF-1	4608	8.483-6	8.925-6	5.605-3	3.908-3	8.835-6	
	ENDF/B-5	9769			1.180-3	1.383-3	28.95-6	
	RCN-3	600148			993.4-6 *	3.908-3	8.619-6 *	
60-ND-150	TOTAL	JEF-1	4600	5.053	4.918	237.6	5.247	6.799
		ENDF/B-5	9771	5.053	4.918	237.6	5.247	6.799
		JENDL-1	6050	6.195	6.063	210.1	5.331	6.649 *
		RCN-3	600150	7.167	7.039 *	204.0	5.274	6.495 *
	ELASTIC	JEF-1	4600	3.852	3.852	212.2	2.731	4.617
		ENDF/B-5	9771	3.852	3.852	212.2	2.731	4.617
		JENDL-1	6050	4.992	4.992	186.9	3.089	4.938 *
		RCN-3	600150	5.995	5.985 *	178.9	3.111	4.744 *
	INELAST.	JEF-1	4600			7.618 *	366.3-3	2.140 *
		ENDF/B-5	9771			7.618 *	366.3-3	2.140 *
		JENDL-1	6050			6.965 *	2.242	1.646 *
		RCN-3	600150			5.954 *		1.698 *
	(N, 2N)	JEF-1	4600			1.184 *	1.592	9.177-3 *
		ENDF/B-5	9771			1.184 *	1.592	9.177-3 *
RCN-3		600150			1.245 *	2.160	10.17-3 *	
(N, 3N)	JEF-1	4600			633.7-3 *	558.0-3	75.45-6 *	
	ENDF/B-5	9771			633.7-3 *	558.0-3	75.45-6 *	
(N, N+A)	JEF-1	4600			569.0-6 *	497.3-6	1.952-6 *	
	ENDF/B-5	9771			569.0-6 *	497.3-6	1.952-6 *	
(N, N+P)	JEF-1	4600			87.97-6 *	27.73-6	14.15-9 *	
	ENDF/B-5	9771			87.97-6 *	27.73-6	14.15-9 *	
CAPTURE	JEF-1	4600	1.201	1.065	16.01	876.3-6	31.13-3	
	ENDF/B-5	9771	1.201	1.065	16.01	876.3-6	31.13-3	
	JENDL-1	6050	1.203	1.067	16.22	174.0-6	60.48-3 *	
	RCN-3	600150	1.173	1.054 *	17.83	884.0-6	42.11-3 *	
(N, P)	JEF-1	4600			341.0-6 *	234.5-6	104.3-9 *	
	ENDF/B-5	9771			341.0-6 *	234.5-6	104.3-9 *	
	RCN-3	600150			349.6-6 *	1.514-3	1.286-6 *	
(N, D)	JEF-1	4600			684.3-6 *	235.6-6	40.28-9 *	
	ENDF/B-5	9771			684.3-6 *	235.6-6	40.28-9 *	
	RCN-3	600150			31.67-6 *	179.7-6	65.08-9 *	
(N, T)	JEF-1	4600			517.7-6 *	31.25-6	22.02-9 *	
	ENDF/B-5	9771			517.7-6 *	31.25-6	22.02-9 *	
	RCN-3	600150			3.880-6 *	17.53-6	6.419-9 *	
(N, HE-3)	RCN-3	600150			11.50-9 *	57.96-9		
(N, A)	JEF-1	4600	5.225-6	5.497-6	612.7-6	640.9-6	17.26-6	
	ENDF/B-5	9771	5.225-6	5.497-6	612.7-6	640.9-6	17.26-6	
	RCN-3	600150			165.7-6 *	666.0-6	1.359-6 *	
61-PM-147	TOTAL	JEF-1	4611	188.3	165.2	3.373+3	5.188	6.481
		ENDF/B-5	9783	185.7	164.3	3.891+3	5.120	7.009
		RCN-3	610147	185.8	166.0	3.358+3 *	5.188	6.481 *
ELASTIC	JEF-1	4611	7.426	6.108	1.151+3	3.045	4.514	
	ENDF/B-5	9783	3.247	3.206	1.602+3	2.970	4.925	
	RCN-3	610147	4.880	3.588 *	1.124+3 *	3.045	4.514 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.	
61-PM-147	INELAST.	JEF-1	4611			6.396 *		1.776 *	
		ENDF/B-5	9783			6.692 *	80.35-3	1.917 *	
		RCN-3	610147			6.261 *		1.776 *	
	(N,2N)	JEF-1	4611			1.704 *	2.132	6.925-3 *	
		ENDF/B-5	9783			1.316 *	2.051	7.915-3 *	
		RCN-3	610147			1.099 *	2.132	6.878-3 *	
	(N,3N)	ENDF/B-5	9783			363.9-3 *		16.46-6 *	
	(N,N+A)	ENDF/B-5	9783	933.0-9	971.5-9	1.367-3	1.390-3	4.547-6	
	(N,N+P)	ENDF/B-5	9783			884.2-6 *	579.3-6	814.8-9 *	
	CAPTURE	JEF-1	4611		180.9	160.1	2.214+3	957.0-6	184.3-3
		ENDF/B-5	9783		182.4	161.1	2.279+3	2.244-3	156.4-3
		RCN-3	610147		180.9	162.4	2.227+3 *	957.0-6	184.3-3 *
	(N,P)	JEF-1	4611				4.381-3 *	6.508-3	16.12-6 *
		ENDF/B-5	9783				2.456-3 *	3.745-3	6.624-6 *
RCN-3		610147				1.664-3 *	6.508-3	15.69-6 *	
(N,D)	JEF-1	4611				890.5-6 *	680.5-6	978.8-9 *	
	ENDF/B-5	9783				5.514-3 *	4.505-3	2.012-6 *	
	RCN-3	610147				157.9-6 *	680.5-6	936.2-9 *	
(N,T)	JEF-1	4611				45.91-6 *	23.69-6	20.64-9 *	
	ENDF/B-5	9783				4.048-3 *	2.254-3	701.9-9 *	
	RCN-3	610147				5.401-6 *	23.69-6	18.51-9 *	
(N,HE-3)	JEF-1	4611				4.874-6 *	2.802-6	1.834-9 *	
	ENDF/B-5	9783				55.07-6 *			
	RCN-3	610147				626.8-9 *	2.802-6	1.638-9 *	
(N,A)	JEF-1	4611				1.397-3	2.297-3	6.012-6	
	ENDF/B-5	9783		14.05-6	14.78-6	2.925-3	3.485-3	60.17-6	
	RCN-3	610147				611.5-6 *	2.297-3	5.947-6 *	
61-PM-148	TOTAL	JEF-1	4612	2.005+3	1.779+3	40.12+3	4.708	6.181	
		JEF-1	4613	10.68+3	13.99+3	3.926+3	4.702	6.186	
		ENDF/B-5	9784	2.005+3	1.780+3	40.09+3	4.707	6.182	
		ENDF/B-5	9785	10.68+3	13.99+3	3.838+3	4.707	6.183	
	ELASTIC	JEF-1	4612		5.117	5.117	163.0	3.291	3.682
		JEF-1	4613		32.95	57.80	175.4	3.288	3.683
		ENDF/B-5	9784		5.117	5.117	162.9	3.291	3.683
		ENDF/B-5	9785		32.90	57.75	175.6	3.291	3.683
	INELAST.	JEF-1	4612				7.570 *	1.412	1.870 *
		JEF-1	4613				7.570 *	1.412	1.870 *
		ENDF/B-5	9784				7.570 *	1.412	1.870 *
		ENDF/B-5	9785				7.570 *	1.412	1.870 *
	CAPTURE	JEF-1	4612		2.000+3	1.773+3	39.94+3	2.645-3	616.8-3
		JEF-1	4613		10.64+3	13.94+3	3.728+3	2.650-3	618.4-3
ENDF/B-5		9784		2.000+3	1.773+3	39.90+3	2.643-3	615.9-3	
ENDF/B-5		9785		10.64+3	13.93+3	3.640+3	2.643-3	616.1-3	
61-PM-149	TOTAL	JEF-1	4614	1.405+3	1.247+3	1.029+3	4.713	6.206	
		ENDF/B-5	9786	1.405+3	1.248+3	1.082+3	4.712	6.212	
	ELASTIC	JEF-1	4614		5.139	5.139	217.8	3.329	3.959
		ENDF/B-5	9786		5.139	5.139	217.6	3.328	3.960
	INELAST.	JEF-1	4614				6.739 *	1.379	1.635 *
		ENDF/B-5	9786				6.739 *	1.379	1.635 *
CAPTURE	JEF-1	4614		1.400+3	1.241+3	801.3	2.260-3	604.0-3	
	ENDF/B-5	9786		1.400+3	1.241+3	800.7	2.260-3	604.1-3	
61-PM-151	TOTAL	JEF-1	4615	705.2	627.3	2.173+3	4.724	6.263	
		ENDF/B-5	9788	705.2	627.6	2.344+3	4.723	6.266	
	ELASTIC	JEF-1	4615		5.185	5.185	159.0	3.286	4.599
		ENDF/B-5	9788		5.185	5.185	158.9	3.283	4.600
	INELAST.	JEF-1	4615				7.118 *	1.432	1.664 *
		ENDF/B-5	9788				7.118 *	1.432	1.664 *
CAPTURE	JEF-1	4615		700.0	620.4	2.003+3	2.322-3	1.875-3	
	ENDF/B-5	9788		700.0	620.6	2.004+3	2.321-3	1.874-3	
62-SM-144	TOTAL	JEF-1	4626	5.408	8.882	322.1	7.862	6.771	
		ENDF/B-5	9803	5.408	8.882	322.1	7.862	6.771	
	ELASTIC	JEF-1	4626		4.708	4.708	287.7	6.000	5.867
		ENDF/B-5	9803		4.708	4.708	287.7	6.000	5.867
	INELAST.	JEF-1	4626				4.315 *	1.860	686.6-3 *
		ENDF/B-5	9803				4.315 *	1.860	686.6-3 *
CAPTURE	JEF-1	4626		699.8-3	4.174	30.13	2.070-3	216.8-3	
	ENDF/B-5	9803		699.8-3	4.174	30.13	2.070-3	216.8-3	
62-SM-147	TOTAL	JEF-1	4627	65.48	61.18	1.512+3	5.049	6.927	
		ENDF/B-5	9806	65.01	67.35	1.644+3	5.120	6.949	
		RCN-3	620147	65.48	60.89	1.510+3 *	5.049	6.927 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.
62-SM-147	ELASTIC	JEF-1	4627	1.445	2.660	718.4	2.966	4.744
		ENDF/B-5	9806	106.4-3	85.18-3	864.3	3.018	4.875
		RCN-3	620147	1.445	2.659 *	717.6	2.966	4.744 *
	INELAST.	JEF-1	4627			6.484 *		1.956 *
		ENDF/B-5	9806			5.972 *	74.54-3	1.834 *
		RCN-3	620147			6.488 *		1.957 *
	(N, 2N)	JEF-1	4627			2.040 *	2.062	22.10-3 *
		ENDF/B-5	9806			1.703 *	2.002	18.58-3 *
		RCN-3	620147			1.520 *	2.063	22.06-3 *
	(N, 3N)	ENDF/B-5	9806			237.6-3 *		6.592-6 *
	(N, N+A)	ENDF/B-5	9806	760.2-9	796.4-9	1.242-3	983.8-6	6.827-6
	(N, N+P)	ENDF/B-5	9806			771.8-6 *	558.6-6	913.5-9 *
	CAPTURE	JEF-1	4627			784.6	1.196-3	204.3-3
		ENDF/B-5	9806			64.12	4.674-3	220.3-3
		RCN-3	620147			64.04	1.196-3	204.3-3 *
	(N, P)	JEF-1	4627			11.18-3	12.66-3	41.54-6
		ENDF/B-5	9806			932.9-9	7.002-3	18.89-6
		RCN-3	620147			963.7-9	12.66-3	41.01-6 *
	(N, D)	JEF-1	4627			2.718-3 *	1.231-3	1.376-6 *
		ENDF/B-5	9806			3.981-3 *	1.925-3	600.9-9 *
RCN-3		620147			283.6-6 *	1.231-3	1.258-6 *	
(N, T)	JEF-1	4627			60.58-6 *	27.11-6	23.73-9 *	
	ENDF/B-5	9806			4.275-3 *	2.058-3	639.1-9 *	
	RCN-3	620147			6.183-6 *	27.11-6	21.53-9 *	
(N, HE-3)	JEF-1	4627			7.732-6 *	3.211-6	2.687-9 *	
	ENDF/B-5	9806			196.7-6 *		4.276-9 *	
	RCN-3	620147			722.1-9 *	3.211-6	2.408-9 *	
(N, A)	JEF-1	4627			3.027-3	4.519-3	30.62-6	
	ENDF/B-5	9806			24.60-6	7.153-3	237.5-6	
	RCN-3	620147			25.88-6	1.765-3 *	30.52-6 *	
62-SM-148	TOTAL	JEF-1	4628	7.816	7.541	402.5	4.708	6.182
		ENDF/B-5	9807	7.816	8.187	405.0	4.707	6.182
		JENDL-1	6248	11.67	11.40	603.6	5.253	6.529 *
		RCN-3	620148	5.581	5.302 *	607.5	5.038	6.940 *
	ELASTIC	JEF-1	4628			369.0	3.376	4.905
		ENDF/B-5	9807			5.116	3.375	4.905
		JENDL-1	6248			8.970	3.015	5.072 *
		RCN-3	620148			3.050	2.964	5.094 *
	INELAST.	JEF-1	4628			4.606 *	1.327	1.074 *
		ENDF/B-5	9807			4.606 *	1.327	1.074 *
		JENDL-1	6248			5.501 *	2.237	1.297 *
		RCN-3	620148			5.762 *		1.741 *
CAPTURE	JEF-1	4628			27.67	2.421-3	195.4-3	
	ENDF/B-5	9807			2.700	2.421-3	195.4-3	
	JENDL-1	6248			2.700	686.4-6	157.2-3 *	
	RCN-3	620148			2.532	1.051-3	100.3-3 *	
62-SM-149	TOTAL	JEF-1	4629	41.15+3	61.75+3	4.312+3	5.032	6.984
		ENDF/B-5	1319	39.47+3	59.96+3	3.852+3	5.201	7.003
		RCN-3	620149	41.15+3	61.67+3 *	4.311+3 *	5.032	6.985 *
		JENDL-1	6249					
	ELASTIC	JEF-1	4629			640.8	2.961	4.354
		ENDF/B-5	1319			135.9	3.067	4.395
		RCN-3	620149			148.3	2.961	4.354 *
		JENDL-1	6249					
	INELAST.	JEF-1	4629			8.645 *		2.326 *
		ENDF/B-5	1319			10.22	300.0-3	2.401 *
		RCN-3	620149			8.649 *		2.327 *
		JENDL-1	6249					
	(N, 2N)	JEF-1	4629			2.224 *	2.060	35.17-3 *
		ENDF/B-5	1319			1.363 *	1.800	12.09-3 *
		RCN-3	620149			1.729 *	2.059	35.13-3 *
	CAPTURE	JEF-1	4629			3.661+3	1.016-3	269.2-3
		ENDF/B-5	1319			41.00+3	1.653-3	191.5-3
		RCN-3	620149			39.33+3	1.016-3	269.2-3 *
	(N, P)	JEF-1	4629			9.999-3 *	7.373-3	18.47-6 *
		ENDF/B-5	1319			14.73-3 *	16.00-3	146.6-6 *
RCN-3		620149			1.840-3 *	7.373-3	18.09-6 *	
(N, D)	JEF-1	4629			1.370-3 *	749.0-6	789.9-9 *	
	RCN-3	620149			180.5-6 *	749.0-6	734.7-9 *	
(N, T)	JEF-1	4629			51.18-6 *	24.28-6	18.89-9 *	
	RCN-3	620149			5.624-6 *	24.28-6	16.97-9 *	
(N, HE-3)	JEF-1	4629			6.420-6 *	2.796-6	1.829-9 *	
	RCN-3	620149			638.2-9 *	2.796-6	1.588-9 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.
62-SM-149	(N,A)	JEF-1	4629			2.324+3	2.934-3	15.90-6
		ENDF/B-5	1319			14.73-3	16.00-3	146.6-6
		RCN-3	620149			1.020-3 *	2.934-3	15.81-6 *
62-SM-150	TOTAL	JEF-1	4620	109.2	97.05	810.3	4.717	5.240
		ENDF/B-5	9809	109.2	97.05	810.3	4.717	5.240
		JENDL-1	6250	110.0	97.89	821.6	5.298	6.558 *
		RCN-3	620150	118.5	106.1	839.9	5.026	7.003 *
	ELASTIC	JEF-1	4620	6.990	6.938	483.2	3.363	4.652
		ENDF/B-5	9809	6.990	6.938	483.2	3.363	4.652
		JENDL-1	6250	8.071	8.020	492.3	3.046	4.843 *
		RCN-3	620150	9.889	8.869 *	504.8	2.959	4.844 *
	INELAST.	JEF-1	4620			5.706 *	1.349	1.444 *
		ENDF/B-5	9809			5.706 *	1.349	1.444 *
		JENDL-1	6250			6.191 *	2.250	1.510 *
		RCN-3	620150			6.721 *		2.006 *
(N,2N)	RCN-3	620150			1.074 *	2.058	6.180-3 *	
CAPTURE	JEF-1	4620	102.2	90.11	321.4	2.329-3	142.2-3	
	ENDF/B-5	9809	102.2	90.11	321.4	2.329-3	142.2-3	
	JENDL-1	6250	101.9	89.87	323.0	1.752-3	204.0-3 *	
	RCN-3	620150	108.6	97.22	327.3	926.5-6	147.4-3 *	
(N,P)	RCN-3	620150			1.173-3 *	5.010-3	7.007-6 *	
(N,D)	RCN-3	620150			188.9-6 *	496.5-6	692.3-9 *	
(N,T)	RCN-3	620150			5.139-6 *	22.90-6	10.68-9 *	
(N,HE-3)	RCN-3	620150			622.7-9 *	2.740-6	1.363-9 *	
(N,A)	RCN-3	620150			619.4-6 *	2.445-3	5.394-6 *	
62-SM-151	TOTAL	JEF-1	4621	15.22+3	12.54+3	3.878+3	5.006	6.768
		ENDF/B-5	9810	15.12+3	12.36+3	3.764+3	5.299	6.900
		RCN-3	620151	15.21+3	12.56+3 *	3.743+3 *	5.021	7.004 *
	ELASTIC	JEF-1	4621	60.39	50.69	329.3	2.785	3.813
		ENDF/B-5	9810	16.74	13.60	326.6	3.032	4.217
		RCN-3	620151	62.33	45.46	282.7	2.956	3.998 *
	INELAST.	JEF-1	4621			15.03	9.501-3	2.769 *
		ENDF/B-5	9810			18.38	145.7-3	2.304 *
		RCN-3	620151			13.18		2.847 *
	(N,2N)	JEF-1	4621			2.140 *	2.208	23.93-3 *
		ENDF/B-5	9810			1.939 *	2.104	43.77-3 *
RCN-3		620151			1.863 *	2.057	45.90-3 *	
(N,3N)	ENDF/B-5	9810			428.3-3 *	4.164-3	23.78-6 *	
(N,N+A)	ENDF/B-5	9810	834.6-9	874.3-9	1.400-3	1.527-3	6.235-6	
(N,N+P)	ENDF/B-5	9810			365.5-6 *	272.9-6	277.7-9 *	
CAPTURE	JEF-1	4621	15.16+3	12.49+3	3.531+3	1.629-3	162.4-3	
	ENDF/B-5	9810	15.10+3	12.35+3	3.415+3	3.456-3	332.0-3	
	RCN-3	620151	15.15+3	12.52+3 *	3.445+3 *	993.7-6	112.6-3 *	
(N,P)	ENDF/B-5	9810			1.692-3 *	2.507-3	3.639-6 *	
	RCN-3	620151			1.079-3 *	4.461-3	10.02-6 *	
(N,D)	ENDF/B-5	9810			1.591-3 *	588.3-6	140.3-9 *	
(N,T)	ENDF/B-5	9810			2.411-3 *	1.023-3	261.2-9 *	
(N,HE-3)	ENDF/B-5	9810			19.98-6 *			
(N,A)	ENDF/B-5	9810	10.74-6	11.30-6	2.356-3	2.512-3	58.14-6	
	RCN-3	620151			553.1-6 *	1.863-3	6.726-6 *	
62-SM-152	TOTAL	JEF-1	4622	209.9	192.0	8.705+3	5.015	7.030
		ENDF/B-5	9811	209.2	186.1	8.773+3	5.300	6.937
		JENDL-1	6252	213.7	190.6	8.762+3 *	5.341	6.581 *
		RCN-3	620152	209.9	191.1	8.704+3 *	5.015	7.030 *
	ELASTIC	JEF-1	4622	3.928	7.321	5.714+3	2.952	4.669
		ENDF/B-5	9811	2.158	2.228	5.763+3	2.820	4.648
		JENDL-1	6252	6.660	6.742	5.754+3 *	3.075	4.743 *
		RCN-3	620152	3.928	7.320 *	5.713+3 *	2.952	4.669 *
	INELAST.	JEF-1	4622			8.229 *		2.265 *
		ENDF/B-5	9811			8.055 *	347.1-3	2.177 *
		JENDL-1	6252			7.028 *	2.266	1.659 *
		RCN-3	620152			8.234 *		2.266 *
(N,2N)	JEF-1	4622			1.617 *	2.056	5.268-3 *	
	ENDF/B-5	9811			1.159 *	2.127	4.531-3 *	
	RCN-3	620152			1.021 *	2.056	5.227-3 *	
(N,3N)	ENDF/B-5	9811			421.5-3 *	6.932-6	21.27-6 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
62-SM-152	(N,N+A)	ENDF/B-5	9811	1.914-6	1.985-6	1.035-3	966.8-6	5.413-6	
	(N,N+P)	ENDF/B-5	9811			224.3-6 *	96.50-6	59.32-9 *	
	CAPTURE	JEF-1	4622	206.0	184.7	2.982+3	929.6-6	89.86-3	
		ENDF/B-5	9811	207.0	183.8	3.001+3	2.572-3	104.3-3	
		JENDL-1	6252	207.0	183.9	3.001+3 *	598.3-6	178.3-3 *	
		RCN-3	620152	206.0	183.8	2.982+3 *	929.6-6	89.86-3 *	
	(N,P)	JEF-1	4622			7.303-3 *	3.252-3	3.868-6 *	
		ENDF/B-5	9811			823.4-6 *	797.1-6	491.9-9 *	
		RCN-3	620152			746.8-6 *	3.252-3	3.609-6 *	
	(N,D)	JEF-1	4622			1.789-3 *	1.091-3	642.3-9 *	
		ENDF/B-5	9811			1.257-3 *	474.1-6	102.0-9 *	
		RCN-3	620152			205.1-6 *	1.091-3	588.1-9 *	
	(N,T)	JEF-1	4622			57.25-6 *	20.68-6	10.22-9 *	
		ENDF/B-5	9811			579.0-6 *	26.55-6	23.88-9 *	
RCN-3		620152			4.602-6 *	20.68-6	8.246-9 *		
(N,HE-3)	JEF-1	4622			902.3-9 *	353.3-9			
	ENDF/B-5	9811			7.206-6 *				
	RCN-3	620152			78.68-9 *	353.3-9			
(N,A)	JEF-1	4622			1.505-3	1.341-3	2.881-6		
	ENDF/B-5	9811	10.32-6	10.85-6	1.213-3	1.331-3	34.35-6		
	RCN-3	620152			335.3-6 *	1.341-3	2.804-6 *		
62-SM-153	TOTAL	JEF-1	4623	335.2	298.8	3.147+3	4.734	6.319	
		ENDF/B-5	9812	335.2	301.3	6.160+3	4.733	6.323	
	ELASTIC	JEF-1	4623	5.231	5.231	259.3	3.288	4.180	
		ENDF/B-5	9812	5.231	5.231	259.1	3.286	4.180	
	INELAST.	JEF-1	4623			12.42	1.439	2.139 *	
		ENDF/B-5	9812			12.42	1.439	2.139 *	
	CAPTURE	JEF-1	4623	330.0	292.5	2.864+3	2.782-3	656.9-6	
		ENDF/B-5	9812	330.0	292.6	2.863+3	2.780-3	656.6-6	
	62-SM-154	TOTAL	JEF-1	4624	8.766	8.133	260.8	4.738	6.345
			ENDF/B-5	9813	8.756	8.133	260.8	4.738	6.345
			JENDL-1	6254	11.19	10.59	265.3	5.384	6.776 *
			RCN-3	620154	11.14	10.54	258.4	5.005	7.068 *
ELASTIC		JEF-1	4624	3.254	3.254	220.1	3.340	4.723	
		ENDF/B-5	9813	3.254	3.254	220.1	3.340	4.723	
		JENDL-1	6254	5.692	5.692	223.8	3.103	4.989 *	
		RCN-3	620154	5.625	5.559 *	215.6	2.945	4.748 *	
INELAST.		JEF-1	4624			6.673 *	1.391	1.562 *	
		ENDF/B-5	9813			6.673 *	1.391	1.562 *	
		JENDL-1	6254			7.402 *	2.280	1.723 *	
		RCN-3	620154			8.514 *		2.285 *	
(N,2N)		RCN-3	620154			1.071 *	2.055	6.151-3 *	
CAPTURE		JEF-1	4624	5.502	4.879	33.95	2.313-3	59.83-3	
		ENDF/B-5	9813	5.502	4.879	33.95	2.313-3	59.83-3	
		JENDL-1	6254	5.503	4.880	34.07	75.70-6	62.50-3 *	
		RCN-3	620154	5.513	4.985 *	33.22	921.3-6	27.88-3 *	
(N,P)		RCN-3	620154			484.7-6 *	2.043-3	2.571-6 *	
(N,D)		RCN-3	620154			53.60-6 *	239.4-6	106.1-9 *	
(N,T)		RCN-3	620154			4.029-6 *	18.72-6	5.198-9 *	
(N,HE-3)		RCN-3	620154			8.644-9 *	43.51-9		
(N,A)		RCN-3	620154			357.1-6 *	1.454-3	2.649-6 *	
63-EU-151		TOTAL	JEF-1	4631	9.252+3	7.356+3	3.608+3	5.130	7.007
			ENDF/B-5	1357	9.202+3	7.335+3	3.599+3	5.130	6.998
	JENDL-1		6351	9.421+3	7.486+3	3.563+3 *	5.292	6.607 *	
	ELASTIC	JEF-1	4631	3.398	2.818	277.8	2.847	4.412	
		ENDF/B-5	1357	3.398	2.814	277.0	2.847	4.407	
		JENDL-1	6351	3.746	3.226	258.7	3.032	4.281 *	
	INELAST.	JEF-1	4631			9.132 *	62.74-3	2.142 *	
		ENDF/B-5	1357			9.131 *	62.73-3	2.142 *	
		JENDL-1	6351			8.699 *	2.260	1.819 *	
	(N,2N)	JEF-1	4631			1.335 *	2.174	2.808-3 *	
		ENDF/B-5	1357			1.334 *	2.174	2.809-3 *	
	(N,3N)	JEF-1	4631			83.56-3 *		1.441-6 *	
		ENDF/B-5	1357			83.54-3 *		1.441-6 *	
	(N,N+A)	JEF-1	4631			40.15-6	42.20-6	16.81-9	
	(N,N+P)	JEF-1	4631			41.03-6 *	22.93-6	6.382-9 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.	
63-EU-151	CAPTURE	JEF-1	4631	9.248+3	7.353+3	3.320+3	1.400-3	450.3-3	
		ENDF/B-5	1357	9.198+3	7.332+3	3.311+3	1.400-3	445.8-3	
		JENDL-1	6351	9.417+3	7.482+3	3.295+3 *	756.1-6	504.1-3 *	
	(N,P)	JEF-1	4631			17.16-3	27.55-3	73.35-6	
		ENDF/B-5	1357			17.16-3	27.55-3	73.38-6	
	(N,D)	JEF-1	4631			6.085-3 *	5.460-3	2.907-6 *	
		ENDF/B-5	1357			6.084-3 *	5.460-3	2.909-6 *	
	(N,T)	JEF-1	4631			4.159-3 *	2.198-3	690.4-9 *	
		ENDF/B-5	1357			4.158-3 *	2.198-3	690.6-9 *	
	(N,HE-3)	JEF-1	4631			92.14-6 *	5.569-6	36.14-9 *	
		ENDF/B-5	1357			92.15-6 *	5.569-6	36.15-9 *	
	(N,A)	JEF-1	4631			6.605-3	9.137-3	119.0-6	
		ENDF/B-5	1357			6.603-3	9.137-3	119.2-6	
	63-EU-152	TOTAL	JEF-1	4632	2.318+3	1.851+3	3.946+3	4.934	6.916
ENDF/B-5			1292	2.318+3	1.846+3	3.939+3	4.934	6.898	
ELASTIC		JEF-1	4632	5.349	5.277	246.7	2.650	3.969	
		ENDF/B-5	1292	5.348	5.270	246.0	2.650	3.965	
INELAST.		JEF-1	4632			8.964 *	21.78-3	2.507 *	
		ENDF/B-5	1292			8.964 *	21.78-3	2.508 *	
(N,2N)		JEF-1	4632			1.622 *	2.215	11.05-3 *	
		ENDF/B-5	1292			1.622 *	2.215	11.06-3 *	
(N,3N)		JEF-1	4632			192.0-3 *		4.910-6 *	
		ENDF/B-5	1292			192.0-3 *		4.912-6 *	
(N,N+A)		JEF-1	4632			17.88-6	15.36-6	6.540-9	
(N,N+P)		JEF-1	4632			21.14-6 *	9.651-6	2.506-9 *	
CAPTURE		JEF-1	4632			2.313+3	1.845+3	3.688+3	4.138-3
		ENDF/B-5	1292			2.313+3	1.841+3	3.682+3	4.100-3
(N,P)		JEF-1	4632			1.503-6	1.503-6	18.87-3	26.75-3
		ENDF/B-5	1292			1.503-6	1.503-6	18.87-3	26.75-3
(N,D)		JEF-1	4632			4.310-3 *	3.348-3	1.424-6 *	
		ENDF/B-5	1292			4.310-3 *	3.348-3	1.425-6 *	
(N,T)		JEF-1	4632			6.266-3 *	5.316-3	2.644-6 *	
		ENDF/B-5	1292			6.266-3 *	5.316-3	2.646-6 *	
(N,HE-3)		JEF-1	4632			48.48-6 *	3.308-6	13.48-9 *	
		ENDF/B-5	1292			48.48-6 *	3.308-6	13.49-9 *	
(N,A)		JEF-1	4632			6.377-3	7.735-3	155.0-6	
		ENDF/B-5	1292			6.377-3	7.735-3	155.1-6	
63-EU-153	TOTAL	JEF-1	4633	307.0	264.5	1.682+3	5.170	6.604	
		ENDF/B-5	1359	306.7	263.5	1.679+3	5.170	6.597	
	ELASTIC	JEF-1	4633	6.778	6.712	217.8	2.990	3.935	
		ENDF/B-5	1359	6.751	6.674	217.3	2.990	3.930	
	INELAST.	JEF-1	4633			9.736 *	143.5-3	2.398 *	
		ENDF/B-5	1359			9.736 *	143.5-3	2.399 *	
	(N,2N)	JEF-1	4633			1.301 *	2.017	4.244-3 *	
		ENDF/B-5	1359			1.300 *	2.017	4.245-3 *	
	(N,3N)	JEF-1	4633			167.6-3 *		4.225-6 *	
		ENDF/B-5	1359			167.6-3 *		4.227-6 *	
	(N,N+A)	JEF-1	4633			1.266-3	1.339-3	1.045-6	
	(N,N+P)	JEF-1	4633			847.3-6 *	648.5-6	653.6-9 *	
	CAPTURE	JEF-1	4633			300.2	257.8	1.453+3	1.300-3
		ENDF/B-5	1359			299.9	256.8	1.450+3	1.300-3
	(N,P)	JEF-1	4633			3.136-3 *	4.930-3	10.31-6 *	
		ENDF/B-5	1359			3.136-3 *	4.930-3	10.32-6 *	
	(N,D)	JEF-1	4633			3.857-3 *	2.487-3	1.104-6 *	
		ENDF/B-5	1359			3.857-3 *	2.487-3	1.104-6 *	
	(N,T)	JEF-1	4633			2.120-3 *	817.2-6	219.0-9 *	
		ENDF/B-5	1359			2.120-3 *	817.2-6	219.1-9 *	
	(N,HE-3)	JEF-1	4633			26.12-6 *	2.286-6	6.203-9 *	
		ENDF/B-5	1359			26.12-6 *	2.286-6	6.205-9 *	
	(N,A)	JEF-1	4633			1.000-6	896.3-9	5.302-3	8.400-3
		ENDF/B-5	1359			1.000-6	896.3-9	5.301-3	8.400-3
63-EU-154	TOTAL	JEF-1	4634	1.620+3	1.207+3	2.784+3	4.995	6.569	
		ENDF/B-5	1293	1.512+3	1.205+3	2.780+3	4.968	6.563	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.	
63-EU-154	ELASTIC	JEF-1	4634	6.005	5.962	213.0	2.610	3.741	
		ENDF/B-5	1293	6.033	5.968	212.3	2.610	3.739	
	INELAST.	JEF-1	4634			9.428 *	23.00-3	2.606 *	
		ENDF/B-5	1293			9.428 *	23.00-3	2.607 *	
	(N,2N)	JEF-1	4634			1.597 *	2.214	7.222-3 *	
		ENDF/B-5	1293			1.598 *	2.214	7.224-3 *	
	(N,3N)	JEF-1	4634			92.41-3 *		1.541-6 *	
		ENDF/B-5	1293			92.41-3 *		1.542-6 *	
	(N,N+A)	JEF-1	4634			275.4-9 *	82.53-9		
	(N,N+P)	JEF-1	4634			2.063-6 *	817.7-9		
	CAPTURE	JEF-1	4634		1.514+3	1.201+3	2.560+3	2.612-3	212.7-3
		ENDF/B-5	1293		1.506+3	1.199+3	2.556+3	2.599-3	209.1-3
	(N,P)	JEF-1	4634				58.91-3	88.51-3	357.4-6
		ENDF/B-5	1293				58.91-3	88.51-3	357.6-6
	(N,D)	JEF-1	4634				2.696-3 *	1.471-3	469.2-9 *
ENDF/B-5		1293				2.696-3 *	1.471-3	469.6-9 *	
(N,T)	JEF-1	4634				3.772-3 *	2.322-3	815.5-9 *	
	ENDF/B-5	1293				3.772-3 *	2.322-3	816.1-9 *	
(N,HE-3)	JEF-1	4634				14.50-6 *	2.001-6	3.933-9 *	
	ENDF/B-5	1293				14.50-6 *	2.001-6	3.935-9 *	
(N,A)	JEF-1	4634				17.72-3	25.62-3	211.4-6	
	ENDF/B-5	1293				17.72-3	25.62-3	211.6-6	
63-EU-155	TOTAL	JEF-1	4635	3.650+3	4.107+3	2.365+3	5.395	6.665	
		ENDF/B-5	9832	4.045+3	3.589+3	2.038+3	5.395	6.830	
	ELASTIC	JEF-1	4635	3.035	3.446	178.0	3.096	4.249	
		ENDF/B-5	9832	5.277	5.277	153.5	3.000	3.983	
	INELAST.	JEF-1	4635			7.908 *	66.36-3	2.140 *	
		ENDF/B-5	9832			8.791 *	236.5-3	2.051 *	
	(N,2N)	JEF-1	4635			1.564 *	2.232	3.845-3 *	
		ENDF/B-5	9832			1.337 *	2.154	5.846-3 *	
	(N,3N)	ENDF/B-5	9832			323.8-3 *		10.69-6 *	
	(N,N+A)	ENDF/B-5	9832			506.8-6 *	481.4-6	2.230-6 *	
	(N,N+P)	ENDF/B-5	9832			405.2-6 *	352.0-6	434.5-9 *	
	CAPTURE	JEF-1	4635		3.647+3	4.104+3	2.178+3	1.338-3	269.2-3
		ENDF/B-5	9832		4.040+3	3.582+3	1.857+3	2.620-3	783.1-3
	(N,P)	ENDF/B-5	9832			1.067-3 *	1.421-3	1.501-6 *	
	(N,D)	ENDF/B-5	9832			2.283-3 *	997.7-6	385.6-9 *	
(N,T)	ENDF/B-5	9832			1.430-3 *	498.3-6	115.5-9 *		
(N,HE-3)	ENDF/B-5	9832			2.727-6 *				
(N,A)	ENDF/B-5	9832		7.004-6	7.372-6	1.249-3	1.417-3	23.76-6	
63-EU-156	TOTAL	JEF-1	4636	487.3	434.5	1.678+3	4.748	6.387	
		ENDF/B-5	9833	487.3	434.7	1.676+3	4.747	6.389	
	ELASTIC	JEF-1	4636	5.299	5.299	144.3	3.287	4.167	
		ENDF/B-5	9833	5.299	5.299	144.2	3.285	4.168	
	INELAST.	JEF-1	4636			11.68	1.454	2.215 *	
		ENDF/B-5	9833			11.68	1.454	2.215 *	
CAPTURE	JEF-1	4636	482.0	427.4	1.493+3	2.786-3	1.947-3		
	ENDF/B-5	9833	482.0	427.6	1.492+3	2.784-3	1.946-3		
63-EU-157	TOTAL	JEF-1	4637	195.3	175.3	1.476+3	4.752	6.408	
		ENDF/B-5	9834	195.3	175.4	1.474+3	4.751	6.409	
	ELASTIC	JEF-1	4637	5.322	5.322	152.5	3.278	4.949	
		ENDF/B-5	9834	5.322	5.322	152.3	3.277	4.951	
	INELAST.	JEF-1	4637			6.120 *	1.467	1.445 *	
		ENDF/B-5	9834			6.120 *	1.467	1.445 *	
CAPTURE	JEF-1	4637	190.0	168.3	1.303+3	2.334-3	4.291-3		
	ENDF/B-5	9834	190.0	168.3	1.302+3	2.333-3	4.289-3		
64-GD-154	TOTAL	JEF-1	4644	89.25	79.32	569.2	4.733	6.349	
		ENDF/B-5	1364	96.39	86.34	454.3	5.216	6.728	
ELASTIC	JEF-1	4644	3.573	3.572	314.1	3.373	4.631		
	ENDF/B-5	1364	10.49	10.46	214.1	1.924	4.371		

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.
64-GD-154	INELAST.	JEF-1	4644			5.993 *	1.357	1.405 *
		ENDF/B-5	1364			8.228 *	1.370	2.031 *
	CAPTURE	JEF-1	4644	85.68	75.76	248.3	2.612-3	307.0-3
		ENDF/B-5	1364	85.90	75.88	230.8	2.605-3	323.8-3
64-GD-155	TOTAL	JEF-1	4645	61.19+3	46.07+3	2.765+3	5.349	6.690
		ENDF/B-5	1365	60.98+3	45.54+3	1.760+3	5.216	6.735
		JENDL-1	6455	61.19+3	46.07+3	2.763+3 *	5.348	6.690 *
	ELASTIC	JEF-1	4645	54.44	47.13	164.2	3.062	4.316
		ENDF/B-5	1365	58.77	50.74	191.2	1.918	3.949
		JENDL-1	6455	54.44	47.13	163.3	3.062	4.316 *
	INELAST.	JEF-1	4645			9.609 *	2.286	2.000 *
		ENDF/B-5	1365			11.92	1.369	2.528 *
		JENDL-1	6455			8.994 *	2.286	2.000 *
	CAPTURE	JEF-1	4645	61.13+3	46.02+3	2.589+3	148.4-6	370.4-3
		ENDF/B-5	1365	60.93+3	45.49+3	1.555+3	3.092-3	240.5-3
		JENDL-1	6455	61.13+3	46.02+3	2.589+3 *	148.4-6	370.4-3 *
64-GD-156	TOTAL	JEF-1	4646	7.096	6.921	342.6	5.384	6.724
		ENDF/B-5	1366	7.329	7.135	331.7	5.216	6.728
		JENDL-1	6456	7.302	7.141	320.2	5.370	6.712 *
	ELASTIC	JEF-1	4646	5.555	5.554	233.0	3.081	4.750
		ENDF/B-5	1366	5.620	5.619	216.7	1.908	4.539
		JENDL-1	6456	5.896	5.896	224.3	3.077	4.794 *
	INELAST.	JEF-1	4646			6.973 *	39.48-3	1.854 *
		ENDF/B-5	1366			8.715 *	1.369	2.076 *
		JENDL-1	6456			7.138 *	2.292	1.639 *
	(N, 2N)	JEF-1	4646			1.518 *	2.262	3.185-3 *
		ENDF/B-5	1366			1.138 *	1.908	3.677-3 *
	CAPTURE	JEF-1	4646	1.541	1.367	101.0	1.776-3	117.4-3
		ENDF/B-5	1366	1.709	1.516	105.3	2.552-3	110.0-3
		JENDL-1	6456	1.406	1.245	88.63	291.4-6	276.8-3 *
64-GD-157	TOTAL	JEF-1	4647	256.2+3	193.5+3	977.6	5.391	6.706
		ENDF/B-5	1367	256.1+3	193.2+3	992.3	5.216	6.730
		JENDL-1	6457	256.2+3	193.5+3	976.0	5.391	6.706 *
	ELASTIC	JEF-1	4647	1.330+3	1.086+3	204.0	3.092	4.472
		ENDF/B-5	1367	1.015+3	823.7	220.7	1.883	4.037
		JENDL-1	6457	1.330+3	1.086+3	203.0	3.092	4.472 *
	INELAST.	JEF-1	4647			9.773 *	2.299	2.032 *
		ENDF/B-5	1367			12.47	1.368	2.587 *
		JENDL-1	6457			9.141 *	2.299	2.032 *
	CAPTURE	JEF-1	4647	254.9+3	192.4+3	763.6	75.97-6	200.8-3
		ENDF/B-5	1367	255.0+3	192.3+3	757.6	1.190-3	87.43-3
		JENDL-1	6457	254.9+3	192.4+3	763.6	75.96-6	200.8-3 *
64-GD-158	TOTAL	JEF-1	4648	6.020	5.731	227.6	4.755	6.428
		ENDF/B-5	1368	5.292	5.065	210.6	5.216	6.728
	ELASTIC	JEF-1	4648	3.498	3.498	157.7	3.304	4.818
		ENDF/B-5	1368	3.290	3.290	137.8	1.868	4.591
	INELAST.	JEF-1	4648			6.768 *	1.444	1.552 *
		ENDF/B-5	1368			8.869 *	1.367	2.058 *
	CAPTURE	JEF-1	4648	2.522	2.233	63.19	2.885-3	54.86-3
		ENDF/B-5	1368	2.002	1.776	62.77	2.883-3	73.71-3
64-GD-160	TOTAL	JEF-1	4640	4.485	4.401	197.9	4.761	6.464
		ENDF/B-5	1370	4.384	4.297	162.2	5.216	6.727
	ELASTIC	JEF-1	4640	3.715	3.715	182.6	3.288	4.874
		ENDF/B-5	1370	3.620	3.620	143.9	1.839	4.573
	INELAST.	JEF-1	4640			6.755 *	1.465	1.505 *
		ENDF/B-5	1370			9.111 *	1.367	2.090 *
	CAPTURE	JEF-1	4640	770.2-3	686.6-3	8.567	2.334-3	80.21-3
		ENDF/B-5	1370	763.6-3	676.5-3	7.889	1.502-3	55.75-3
65-TB-159	TOTAL	JEF-1	4659	29.76	27.31	642.7	5.009	6.702
		ENDF/B-5	9857	29.71	26.87	829.6	4.757	6.451
	ELASTIC	JEF-1	4659	6.550	6.550	215.9	2.499	4.004
		ENDF/B-5	9857	4.199	4.197	359.3	3.288	4.452
	INELAST.	JEF-1	4659			9.979 *	59.42-3	2.540 *
		ENDF/B-5	9857			8.166 *	1.462	1.846 *
	(N, 2N)	JEF-1	4659			1.719 *	2.449	4.184-3 *
	CAPTURE	JEF-1	4659	23.20	20.57	415.1	1.771-3	153.4-3
		ENDF/B-5	9857	25.51	22.67	460.6	1.766-3	151.0-3
65-TB-160	TOTAL	JEF-1	4650	530.4	472.2	1.395+3	4.761	6.466
		ENDF/B-5	9858	530.4	472.4	1.393+3	4.759	6.466

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.
65-TB-160	ELASTIC	JEF-1	4650	5.390	5.390	203.4	3.255	4.325
		ENDF/B-5	9858	5.390	5.390	203.2	3.254	4.325
	INELAST.	JEF-1	4650			9.256 *	1.497	2.127 *
		ENDF/B-5	9858			9.256 *	1.497	2.126 *
CAPTURE	JEF-1	4650	525.0	465.0	1.136+3	2.919-3	4.236-3	
	ENDF/B-5	9858	525.0	465.2	1.135+3	2.917-3	4.234-3	
66-DY-160	TOTAL	JEF-1	4660	63.34	56.66	2.356+3	4.759	6.468
		ENDF/B-5	9864	63.34	56.66	2.356+3	4.759	6.468
	ELASTIC	JEF-1	4660	1.946	1.933	663.8	3.660	4.659
		ENDF/B-5	9864	1.946	1.933	663.8	3.660	4.659
INELAST.	JEF-1	4660			4.712 *	1.095	1.026 *	
	ENDF/B-5	9864			4.712 *	1.095	1.026 *	
CAPTURE	JEF-1	4660	61.40	54.73	1.679+3	2.668-3	769.8-3	
	ENDF/B-5	9864	61.40	54.73	1.679+3	2.668-3	769.8-3	
66-DY-161	TOTAL	JEF-1	4661	610.7	541.1	1.603+3	4.766	6.489
		ENDF/B-5	9865	610.7	540.0	1.599+3	4.761	6.482
	ELASTIC	JEF-1	4661	24.31	24.02	368.3	3.278	4.680
		ENDF/B-5	9865	24.26	23.93	366.7	3.278	4.676
INELAST.	JEF-1	4661			8.271 *	1.475	1.676 *	
	ENDF/B-5	9865			8.271 *	1.475	1.676 *	
CAPTURE	JEF-1	4661	586.5	517.1	1.220+3	3.083-3	122.2-3	
	ENDF/B-5	9865	586.5	516.0	1.218+3	3.078-3	121.8-3	
66-DY-162	TOTAL	JEF-1	4662	199.2	176.6	3.508+3	4.762	6.494
		ENDF/B-5	9866	199.2	176.6	3.508+3	4.762	6.494
	ELASTIC	JEF-1	4662			712.4	3.329	4.849
		ENDF/B-5	9866			712.4	3.329	4.849
INELAST.	JEF-1	4662			6.212 *	1.425	1.358 *	
	ENDF/B-5	9866			6.212 *	1.425	1.358 *	
CAPTURE	JEF-1	4662	200.5	177.9	2.789+3	2.594-3	278.6-3	
	ENDF/B-5	9866	200.5	177.9	2.789+3	2.594-3	278.6-3	
66-DY-163	TOTAL	JEF-1	4663	136.6	121.6	1.816+3	4.762	6.506
		ENDF/B-5	9867	136.6	121.6	1.816+3	4.762	6.506
	ELASTIC	JEF-1	4663	1.817	1.794	338.6	3.227	4.514
		ENDF/B-5	9867	1.817	1.794	338.6	3.227	4.514
INELAST.	JEF-1	4663			8.650 *	1.527	1.908 *	
	ENDF/B-5	9867			8.650 *	1.527	1.908 *	
CAPTURE	JEF-1	4663	134.8	119.9	1.468+3	2.904-3	79.30-3	
	ENDF/B-5	9867	134.8	119.9	1.468+3	2.904-3	79.30-3	
66-DY-164	TOTAL	JEF-1	4664	2.927+3	2.598+3	1.046+3	5.245	6.736
		ENDF/B-5	1031	2.910+3	2.588+3	1.038+3	5.265	6.736
	ELASTIC	JEF-1	4664	390.2	382.2	703.8	3.006	4.323
		ENDF/B-5	1031	389.3	380.7	698.8	3.006	4.316
	INELAST.	JEF-1	4664			9.130 *	40.00-3	2.315 *
		ENDF/B-5	1031			9.130 *	40.00-3	2.316 *
	(N, 2N)	JEF-1	4664			1.224 *	2.198	5.831-3 *
		ENDF/B-5	1031			1.224 *	2.198	5.832-3 *
(N, 3N)	JEF-1	4664			436.8-3 *		26.14-6 *	
	ENDF/B-5	1031			436.9-3 *	2.323-3	26.18-6 *	
CAPTURE	JEF-1	4664	2.527+3	2.216+3	330.2	8.500-3	98.02-3	
	ENDF/B-5	1031	2.521+3	2.207+3	328.7	8.500-3	97.65-3	
(N, P)	JEF-1	4664			1.013-3 *	1.000-3	25.29-6 *	
	ENDF/B-5	1031			1.013-3 *	1.000-3	25.23-6 *	
(N, A)	JEF-1	4664			4.533-3	4.300-3	195.3-6	
	ENDF/B-5	1031			4.533-3	4.300-3	195.4-6	
67-HO-165	TOTAL	JEF-1	4675	69.66	62.15	1.155+3	4.761	6.525
		ENDF/B-5	9872	69.66	62.15	1.155+3	4.761	6.525
		ENDL-82	1050	100.8	86.52	898.5	5.174	6.957 *
	ELASTIC	JEF-1	4675	3.033	3.027	382.3	3.208	4.646
ENDF/B-5		9872	3.033	3.027	382.3	3.208	4.646	
ENDL-82		1050	32.84	26.21	210.5	2.817	4.393 *	
INELAST.	JEF-1	4675			7.486 *	1.545	1.732 *	
	ENDF/B-5	9872			7.486 *	1.545	1.732 *	
	ENDL-82	1050			8.810 *	500.0-3	2.425 *	
(N, 2N)	ENDL-82	1050			1.150 *	1.850	5.881-3 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
67-HO-165	(N,3N)	ENDL-82	1050			313.4-3 *		19.05-6 *	
	CAPTURE	JEF-1	4675	66.63	59.12	762.9	2.618-3	142.0-3	
		ENDF/B-5	9872	66.63	59.12	762.9	2.618-3	142.0-3	
		ENDL-82	1050	67.97	60.31	677.8	7.079-3	131.7-3 *	
68-ER-166	TOTAL	JEF-1	4686	38.57	34.60	371.1	4.760	6.529	
		ENDF/B-5	9875	38.57	34.60	371.1	4.760	6.529	
	ELASTIC	JEF-1	4686	3.592	3.592	223.4	3.223	4.872	
		ENDF/B-5	9875	3.592	3.592	223.4	3.223	4.872	
	INELAST.	JEF-1	4686			6.796 *	1.529	1.504 *	
		ENDF/B-5	9875			6.796 *	1.529	1.504 *	
	CAPTURE	JEF-1	4686	34.97	31.01	140.8	2.726-3	148.8-3	
		ENDF/B-5	9875	34.97	31.01	140.8	2.726-3	148.8-3	
	68-ER-167	TOTAL	JEF-1	4687	671.6	634.8	3.728+3	4.758	6.536
			ENDF/B-5	9876	671.6	634.8	3.728+3	4.758	6.536
		ELASTIC	JEF-1	4687			697.2	3.175	4.674
			ENDF/B-5	9876			697.2	3.175	4.674
INELAST.		JEF-1	4687			7.731 *	1.574	1.746 *	
		ENDF/B-5	9876			7.731 *	1.574	1.746 *	
CAPTURE		JEF-1	4687	673.1	636.5	3.020+3	3.038-3	110.8-3	
		ENDF/B-5	9876	673.1	636.5	3.020+3	3.038-3	110.8-3	
71-LU-175		TOTAL	JEF-1	4715	31.16	27.67	916.8	5.262	7.209
			ENDF/B-5	1032	31.16	27.67	916.8	5.262	7.209
		ELASTIC	JEF-1	4715	5.267	5.260	263.8	3.021	5.137
			ENDF/B-5	1032	5.267	5.260	263.6	3.021	5.136
	INELAST.	JEF-1	4715			7.898 *	110.0-3	1.984 *	
		ENDF/B-5	1032			7.898 *	110.0-3	1.984 *	
	(N,2N)	JEF-1	4715			1.186 *	2.120	5.086-3 *	
		ENDF/B-5	1032			1.186 *	2.120	5.086-3 *	
	(N,3N)	JEF-1	4715			366.7-3 *		18.12-6 *	
		ENDF/B-5	1032			366.7-3 *		18.12-6 *	
	CAPTURE	JEF-1	4716	25.90	22.41	643.5	2.000-3	80.08-3	
		ENDF/B-5	1032	25.90	22.41	642.5	2.000-3	78.88-3	
	(N,P)	JEF-1	4715			4.879-3	3.400-3	503.6-6	
		ENDF/B-5	1032			4.879-3	3.400-3	503.9-6	
	(N,A)	JEF-1	4715			1.863-3	1.000-3	223.8-9	
		ENDF/B-5	1032			1.863-3	1.000-3	223.9-9	
71-LU-176	TOTAL	JEF-1	4716	1.964+3	3.041+3	1.138+3	5.229	7.230	
		ENDF/B-5	1033	1.956+3	3.030+3	1.135+3	5.258	7.217	
	ELASTIC	JEF-1	4716	3.068	4.171	207.7	2.975	5.117	
		ENDF/B-5	1033	3.044	4.154	207.2	2.952	5.106	
	INELAST.	JEF-1	4716			7.537 *	110.0-3	1.966 *	
		ENDF/B-5	1033			7.537 *	110.0-3	1.966 *	
	(N,2N)	JEF-1	4716			1.611 *	2.190	17.78-3 *	
		ENDF/B-5	1033			1.611 *	2.190	17.78-3 *	
	(N,3N)	JEF-1	4716			398.9-3 *		21.79-6 *	
		ENDF/B-5	1033			398.9-3 *		21.80-6 *	
	CAPTURE	JEF-1	4716	1.961+3	3.037+3	920.2	3.200-3	125.8-3	
		ENDF/B-5	1033	1.953+3	3.026+3	918.2	3.200-3	123.7-3	
	(N,P)	JEF-1	4716			4.879-3	3.400-3	503.6-6	
		ENDF/B-5	1033			4.879-3	3.400-3	503.9-6	
	(N,A)	JEF-1	4716			1.863-3	1.000-3	223.8-9	
		ENDF/B-5	1033			1.863-3	1.000-3	223.9-9	
72-HF-174	TOTAL	JEF-1	4724	430.1	377.5	695.3	5.671	5.992	
		ENDF/B-5	1372	392.8	348.6	899.4	5.300	7.034 *	
		JENDL-2	2721	398.0	353.5	873.5	5.673	6.992	
	ELASTIC	JEF-1	4724	23.88	23.54	365.0	3.246	4.990	
		ENDF/B-5	1372	4.187	4.185	407.9	2.840	4.654 *	
		JENDL-2	2721	8.000	7.999	373.6	3.249	4.989	
	INELAST.	JEF-1	4724			7.156 *	1.334	1.632 *	
		ENDF/B-5	1372			8.452	381.9-3	2.268 *	
		JENDL-2	2721			7.161 *	1.333	1.632 *	
	(N,2N)	JEF-1	4724			782.1-3 *	1.089	284.3-6 *	
		ENDF/B-5	1372			1.417	1.980	3.585-3 *	
		JENDL-2	2721			782.1-3 *	1.089	284.3-6 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.	
72-HF-174	(N, 3N)	JEF-1	4724			2.660-3 *		35.67-9 *	
		JENDL-2	2721			2.660-3 *		35.67-9 *	
	CAPTURE	JEF-1	4724	406.2	353.9	322.3	44.92-6	365.9-3	
		ENDF/B-5	1372	388.7	344.4	481.5	12.20-3	109.3-3 *	
		JENDL-2	2721	390.0	345.4	491.8	44.90-6	365.9-3	
	(N, P)	JEF-1	4724			2.177-3	2.446-3	12.39-6	
		ENDF/B-5	1372			83.74-3	87.00-3	61.44-6 *	
		JENDL-2	2721			2.177-3	2.446-3	12.39-6	
	(N, A)	JEF-1	4724			335.4-6	327.8-6	4.764-6	
		JENDL-2	2721			335.4-6	327.8-6	4.764-6	
72-HF-176	TOTAL	JEF-1	4726	18.63	17.01	1.008+3	5.670	6.988	
		ENDF/B-5	1372	45.47	40.72	721.9	5.300	7.013 *	
		JENDL-2	2722	46.00	41.68	718.6	5.672	6.988	
	ELASTIC	JEF-1	4726	4.489	4.484	384.7	3.222	5.039	
		ENDF/B-5	1372	3.592	3.589	363.7	2.843	4.635 *	
		JENDL-2	2722	8.000	7.999	350.6	3.222	5.038	
	INELAST.	JEF-1	4726			6.660 *	521.4-3	1.635 *	
		ENDF/B-5	1372			8.452	381.9-3	2.268 *	
		JENDL-2	2722			6.664 *	521.4-3	1.635 *	
	(N, 2N)	JEF-1	4726			1.269 *	1.928	2.426-3 *	
		ENDF/B-5	1372			1.587	2.042	5.708-3 *	
		JENDL-2	2722			1.269 *	1.928	2.426-3 *	
	(N, 3N)	JEF-1	4726			52.03-3 *		842.0-9 *	
		JENDL-2	2722			52.03-3 *		842.0-9 *	
	CAPTURE	JEF-1	4726	14.14	12.63	614.9	11.99-6	307.7-3	
		ENDF/B-5	1372	41.88	37.13	348.1	12.20-3	104.2-3 *	
		JENDL-2	2722	38.00	33.61	359.9	11.98-6	307.7-3	
	(N, P)	JEF-1	4726			1.112-3 *	1.183-3	2.652-6 *	
		ENDF/B-5	1372			19.79-3	22.00-3	8.590-6 *	
		JENDL-2	2722			1.112-3 *	1.183-3	2.652-6 *	
	(N, A)	JEF-1	4726			75.74-6	69.40-6	1.102-6	
		JENDL-2	2722			75.74-6	69.40-6	1.102-6	
	72-HF-177	TOTAL	JEF-1	4727	378.9	341.1	8.033+3	5.678	6.986
			ENDF/B-5	1372	372.9	336.6	8.224+3	5.300	7.081 *
			JENDL-2	2723	359.0	331.9	7.691+3	5.678	6.985
		ELASTIC	JEF-1	4727	73.77-3	61.65-3	782.7	3.253	4.808
			ENDF/B-5	1372			920.7	2.827	4.359 *
			JENDL-2	2723	7.000	6.990	733.8	3.253	4.807
INELAST.		JEF-1	4727			6.725 *	306.7-3	1.820 *	
		ENDF/B-5	1372			9.548	381.9-3	2.584 *	
		JENDL-2	2723			6.731 *	306.7-3	1.821 *	
(N, 2N)		JEF-1	4727			1.555 *	2.118	7.847-3 *	
		ENDF/B-5	1372			2.036	2.070	20.09-3 *	
		JENDL-2	2723			1.555 *	2.118	7.847-3 *	
(N, 3N)		JEF-1	4727			96.10-3 *		2.252-6 *	
		JENDL-2	2723			96.10-3 *		2.252-6 *	
CAPTURE		JEF-1	4727	378.8	341.0	7.242+3	2.318-6	344.4-3	
		ENDF/B-5	1372	377.3	341.0	7.292+3	12.20-3	117.4-3 *	
		JENDL-2	2723	352.0	324.8	6.948+3	2.318-6	344.5-3	
(N, P)		JEF-1	4727			732.4-6	769.1-6	2.462-6	
		ENDF/B-5	1372			9.175-3	11.00-3	4.846-6 *	
		JENDL-2	2723			732.4-6	769.1-6	2.462-6	
(N, A)		JEF-1	4727			59.45-6	57.00-6	1.063-6	
		JENDL-2	2723			59.45-6	57.00-6	1.063-6	
72-HF-178		TOTAL	JEF-1	4728	79.60	70.89	3.782+3	5.665	6.989
			ENDF/B-5	1372	72.87	64.58	3.647+3	5.300	7.007 *
			JENDL-2	2724	91.00	78.88	3.673+3	5.667	6.989
		ELASTIC	JEF-1	4728	950.5-3	937.4-3	1.848+3	3.201	5.108
			ENDF/B-5	1372			1.865+3	2.803	4.632 *
			JENDL-2	2724	5.000	4.999	1.749+3	3.199	5.107
	INELAST.	JEF-1	4728			7.093 *	448.6-3	1.803 *	
		ENDF/B-5	1372			8.452	381.9-3	2.268 *	
		JENDL-2	2724			7.098 *	448.5-3	1.803 *	
	(N, 2N)	JEF-1	4728			1.280 *	2.019	3.315-3 *	
		ENDF/B-5	1372			1.769	2.100	8.800-3 *	
		JENDL-2	2724			1.280 *	2.019	3.315-3 *	
	(N, 3N)	JEF-1	4728			142.0-3 *		3.538-6 *	
		JENDL-2	2724			142.0-3 *		3.538-6 *	
	CAPTURE	JEF-1	4728	78.65	69.95	1.925+3	757.8-9	72.13-3	
		ENDF/B-5	1372	74.43	66.16	1.771+3	12.20-3	97.70-3 *	
		JENDL-2	2724	86.00	73.60	1.916+3	757.7-9	72.13-3	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
72-HF-178	(N,P)	JEF-1	4728			648.8-6 *	605.1-6	584.7-9 *	
		ENDF/B-5	1372			6.174-3	5.500-3	1.496-6 *	
		JENDL-2	2724			648.8-6 *	605.1-6	584.7-9 *	
	(N,A)	JEF-1	4728			20.92-6	19.80-6	94.08-9	
		ENDF/B-5	1372			20.92-6	19.80-6	94.08-9	
		JENDL-2	2724			20.92-6	19.80-6	94.08-9	
72-HF-179	TOTAL	JEF-1	4729	45.99	41.46	816.2	5.671	6.986	
		ENDF/B-5	1372	50.10	44.93	853.1	5.300	7.081 *	
		JENDL-2	2725	51.00	45.92	775.3	5.672	6.985	
	ELASTIC	JEF-1	4729	6.798	6.783	262.7	3.220	4.931	
		ENDF/B-5	1372	4.555	4.551	354.3	2.780	5.029 *	
		JENDL-2	2725	6.000	5.999	249.5	3.220	4.930	
	INELAST.	JEF-1	4729			7.333 *	368.1-3	1.924 *	
		ENDF/B-5	1372			7.426	381.9-3	1.912 *	
		JENDL-2	2725			7.339 *	368.1-3	1.925 *	
	(N,2N)	JEF-1	4729			1.437 *	2.084	7.489-3 *	
		ENDF/B-5	1372			2.221	2.124	29.79-3 *	
		JENDL-2	2725			1.437 *	2.084	7.489-3 *	
	(N,3N)	JEF-1	4729			133.4-3 *		4.034-6 *	
		JENDL-2	2725			133.4-3 *		4.034-6 *	
	CAPTURE	JEF-1	4729	39.20	34.68	544.5	235.8-9	119.4-3	
		ENDF/B-5	1372	45.54	40.38	489.1	12.20-3	110.1-3 *	
		JENDL-2	2725	45.00	39.86	516.8	235.7-9	119.5-3	
	(N,P)	JEF-1	4729			54.45-6 *	51.00-6	64.32-9 *	
		ENDF/B-5	1372			2.929-3	2.800-3	758.2-9 *	
		JENDL-2	2725			54.45-6 *	51.00-6	64.32-9 *	
	(N,A)	JEF-1	4729			7.419-6	6.400-6	61.46-9	
		JENDL-2	2725			7.419-6	6.400-6	61.46-9	
	72-HF-180	TOTAL	JEF-1	4720	33.33	31.74	312.0	5.662	6.986
			ENDF/B-5	1372	32.22	30.71	277.4	5.300	6.989 *
JENDL-2			2726	32.00	31.07	281.6	5.667	6.987	
ELASTIC		JEF-1	4720	20.16	20.15	267.7	3.161	5.133	
		ENDF/B-5	1372	19.05	19.04	232.7	2.765	4.618 *	
		JENDL-2	2726	19.40	19.85	238.4	3.161	5.133	
INELAST.		JEF-1	4720			6.959 *	220.1-3	1.811 *	
		ENDF/B-5	1372			8.452	381.9-3	2.268 *	
		JENDL-2	2726			6.964 *	219.9-3	1.811 *	
(N,2N)		JEF-1	4720			1.487 *	2.286	5.382-3 *	
		ENDF/B-5	1372			1.739	2.140	7.101-3 *	
		JENDL-2	2726			1.487 *	2.286	5.382-3 *	
(N,3N)		JEF-1	4720			166.7-3 *		5.813-6 *	
		JENDL-2	2726			166.7-3 *		5.813-6 *	
CAPTURE		JEF-1	4720	13.17	11.59	35.65	803.7-9	34.64-3	
		ENDF/B-5	1372	13.17	11.67	34.59	12.20-3	95.65-3 *	
		JENDL-2	2726	12.60	11.16	34.59	803.1-9	34.73-3	
(N,P)		JEF-1	4720			69.25-6 *	54.70-6	28.74-9 *	
		ENDF/B-5	1372			1.855-3	1.390-3	313.4-9 *	
		JENDL-2	2726			69.25-6 *	54.70-6	28.74-9 *	
(N,A)		JEF-1	4720			21.83-6	19.40-6	39.00-9	
		JENDL-2	2726			21.83-6	19.40-6	39.00-9	
73-TA-181		TOTAL	JEF-1	4731	27.39	25.00	1.009+3	5.349	6.631
			ENDF/B-5	1285	27.27	24.93	1.008+3	5.349	6.631
	ENDL-82		1052	27.22	24.90	1.042+3	5.280	6.928 *	
	JENDL-2		2731	27.32	25.03	1.016+3	5.370	6.992	
	ELASTIC	JEF-1	4731	6.150	6.138	256.0	2.877	3.934	
		ENDF/B-5	1285	6.152	6.142	255.8	2.899	3.931	
		ENDL-82	1052	6.247	6.230 *	268.3	2.593	4.534 *	
		JENDL-2	2731	6.110	6.101	263.0	3.012	4.945	
	INELAST.	JEF-1	4731			10.42	230.0-3	2.592 *	
		ENDF/B-5	1285			10.42	230.0-3	2.592 *	
		ENDL-82	1052			8.030 *	545.2-3	2.269 *	
		JENDL-2	2731			7.955 *	102.3-3	1.949 *	
	(N,2N)	JEF-1	4731			1.399 *	2.212	6.002-3 *	
		ENDF/B-5	1285			1.399 *	2.212	6.004-3 *	
		ENDL-82	1052			1.344 *	2.133	5.971-3 *	
		JENDL-2	2731			1.711 *	2.252	6.466-3 *	
	(N,3N)	JEF-1	4731			286.8-3 *		13.88-6 *	
		ENDF/B-5	1285			286.8-3 *		13.89-6 *	
		ENDL-82	1052			283.8-3 *		14.31-6 *	
	CAPTURE	JEF-1	4731	21.24	18.85	740.9	4.500-3	103.0-3	
		ENDF/B-5	1285	21.12	18.79	739.7	4.500-3	101.9-3	
		ENDL-82	1052	20.88	18.58	762.9	4.500-3	103.1-3 *	
		JENDL-2	2731	21.21	18.93	743.6	209.4-9	91.25-3	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.
73-TA-181	(N,P)	JEF-1	4731			3.274-3 *	3.700-3	80.68-6 *
		ENDF/B-5	1285			3.276-3 *	3.700-3	81.32-6 *
		ENDL-82	1052			3.276-3 *	3.700-3	81.28-6 *
		JENDL-2	2731			2.136-3 *	4.128-3	454.9-9 *
73-TA-182	TOTAL	JEF-1	4732	8.360+3	12.07+3	1.367+3	5.332	6.776
		ENDF/B-5	1127	8.284+3	12.04+3	1.393+3	5.361	6.782
	ELASTIC	JEF-1	4732	31.13	47.62	308.3	2.743	3.749
		ENDF/B-5	1127	31.01	47.47	317.9	2.743	3.747
	INELAST.	JEF-1	4732			11.28	387.0-3	2.955 *
		ENDF/B-5	1127			11.28	387.0-3	2.955 *
	(N,2N)	JEF-1	4732			1.482 *	2.157	14.95-3 *
		ENDF/B-5	1127			1.482 *	2.157	14.96-3 *
	(N,3N)	JEF-1	4732			464.8-3 *	71.00-3	31.13-6 *
		ENDF/B-5	1127			464.8-3 *	71.00-3	31.16-6 *
	CAPTURE	JEF-1	4732	8.319+3	12.02+3	1.045+3	4.200-3	65.25-3
		ENDF/B-5	1127	8.253+3	11.99+3	1.062+3	4.200-3	64.23-3
	(N,A)	JEF-1	4732			2.252-3	1.900-3	480.7-9
		ENDF/B-5	1127			2.252-3 *	1.900-3	481.0-9 *
74-W -182	TOTAL	JEF-1	4742	32.65	30.27	1.096+3	5.314	6.859
		ENDF/B-5	1128	32.37	30.08	1.094+3	5.338	6.870
	ELASTIC	JEF-1	4742	11.82	11.80	487.5	2.723	4.528
		ENDF/B-5	1128	11.82	11.81	487.0	2.740	4.523
	INELAST.	JEF-1	4742			8.646 *	367.2-3	2.288 *
		ENDF/B-5	1128			8.646 *	367.2-3	2.289 *
	(N,2N)	JEF-1	4742			1.419 *	2.225	5.363-3 *
		ENDF/B-5	1128			1.419 *	2.225	5.365-3 *
	(N,3N)	JEF-1	4742			254.7-3 *		6.023-6 *
		ENDF/B-5	1128			254.7-3 *		6.026-6 *
	(N,N+P)	JEF-1	4742			2.650-3 *	672.0-6	132.9-9 *
	CAPTURE	JEF-1	4742	20.74	18.35	598.0	3.594-3	52.44-3
		ENDF/B-5	1128	20.55	18.27	597.0	3.598-3	52.09-3
	(N,P)	JEF-1	4742			3.677-3 *	3.318-3	669.9-9 *
ENDF/B-5		1128			3.677-3 *	3.318-3	670.3-9 *	
(N,A)	JEF-1	4742			2.359-3	1.100-3	241.0-9	
	ENDF/B-5	1128			2.359-3	1.100-3	241.1-9	
74-W -183	TOTAL	JEF-1	4743	13.49	12.31	840.9	5.294	6.867
		ENDF/B-5	1129	13.42	12.27	839.3	5.338	6.874
	ELASTIC	JEF-1	4743	3.408	3.405	472.4	2.742	4.181
		ENDF/B-5	1129	3.408	3.406	471.4	2.741	4.175
	INELAST.	JEF-1	4743			10.03	326.9-3	2.637 *
		ENDF/B-5	1129			10.03	327.1-3	2.637 *
	(N,2N)	JEF-1	4743			1.928 *	2.263	24.38-3 *
		ENDF/B-5	1129			1.928 *	2.263	24.38-3 *
	(N,3N)	JEF-1	4743			308.7-3 *		9.046-6 *
		ENDF/B-5	1129			308.7-3 *		9.049-6 *
	(N,N+P)	JEF-1	4743			2.521-3 *	560.1-6	118.6-9 *
	CAPTURE	JEF-1	4743	10.08	8.892	356.2	3.713-3	38.82-3
		ENDF/B-5	1129	10.01	8.862	355.6	3.711-3	38.09-3
	(N,P)	JEF-1	4743			4.031-3 *	4.004-3	906.4-9 *
ENDF/B-5		1129			4.030-3 *	4.004-3	907.0-9 *	
(N,A)	JEF-1	4743			2.359-3	1.100-3	241.2-9	
	ENDF/B-5	1129			2.359-3	1.100-3	241.3-9	
74-W -184	TOTAL	JEF-1	4744	6.062	5.868	335.6	5.315	6.980
		ENDF/B-5	1130	6.035	5.834	334.9	5.338	6.987
	ELASTIC	JEF-1	4744	4.285	4.285	308.6	2.731	4.605
		ENDF/B-5	1130	4.285	4.285	308.0	2.745	4.593
	INELAST.	JEF-1	4744			8.567 *	302.3-3	2.346 *
		ENDF/B-5	1130			8.567 *	302.3-3	2.346 *
	(N,2N)	JEF-1	4744			1.479 *	2.282	8.854-3 *
		ENDF/B-5	1130			1.479 *	2.282	8.857-3 *
	(N,3N)	JEF-1	4744			389.0-3 *	3.826-3	15.81-6 *
		ENDF/B-5	1130			389.0-3 *	3.826-3	15.82-6 *
	(N,N+P)	JEF-1	4744			2.051-3 *	195.7-6	77.46-9 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.
74-W -184	CAPTURE	JEF-1	4744	1.757	1.556	16.56	3.838-3	41.58-3
		ENDF/B-5	1130	1.750	1.549	16.53	3.851-3	41.31-3
	(N,P)	JEF-1	4744			3.341-3 *	2.693-3	500.3-9 *
		ENDF/B-5	1130			3.341-3 *	2.694-3	500.7-9 *
	(N,A)	JEF-1	4744			2.359-3	1.100-3	241.0-9
		ENDF/B-5	1130			2.359-3	1.100-3	241.1-9
74-W -186	TOTAL	JEF-1	4746	37.86	33.64	3.512+3	5.310	6.994
		ENDF/B-5	1131	37.70	33.49	3.506+3	5.338	7.003
	ELASTIC	JEF-1	4746	238.7-3	242.7-3	2.982+3	2.744	4.678
		ENDF/B-5	1131	238.3-3	242.0-3	2.977+3	2.744	4.669
	INELAST.	JEF-1	4746			8.205 *	250.8-3	2.289 *
		ENDF/B-5	1131			8.205 *	250.8-3	2.289 *
	(N,2N)	JEF-1	4746			1.481 *	2.322	10.88-3 *
		ENDF/B-5	1131			1.481 *	2.322	10.88-3 *
	(N,3N)	JEF-1	4746			499.4-3 *	17.33-3	29.72-6 *
		ENDF/B-5	1131			499.4-3 *	17.33-3	29.73-6 *
	(N,N+P)	JEF-1	4746			1.437-3 *	36.89-6	41.39-9 *
	CAPTURE	JEF-1	4746			37.62	3.928-3	36.48-3
		ENDF/B-5	1131			37.46	3.956-3	36.27-3
	(N,P)	JEF-1	4746			2.613-3 *	1.450-3	256.0-9 *
ENDF/B-5		1131			2.613-3 *	1.450-3	256.1-9 *	
(N,A)	JEF-1	4746			2.359-3	1.100-3	241.0-9	
	ENDF/B-5	1131			2.359-3	1.100-3	241.1-9	
75-RE-185	TOTAL	JEF-1	4755	135.8	122.9	2.187+3	5.218	6.812
		ENDF/B-5	1083	134.7	122.1	2.183+3	5.218	6.797
		ENDL-82	1054	131.7	116.6	2.199+3	5.217	6.766 *
	ELASTIC	JEF-1	4755	20.60	20.47	430.1	2.704	4.719
		ENDF/B-5	1083	20.62	20.50	428.4	2.709	4.711
		ENDL-82	1054	11.29	11.27	426.7	2.710	4.716 *
	INELAST.	JEF-1	4755			7.909 *	885.7-3	1.939 *
		ENDF/B-5	1083			7.909 *	885.7-3	1.939 *
		ENDL-82	1054			7.685 *	885.7-3	1.892 *
	(N,2N)	JEF-1	4755			1.123 *	1.620	3.793-3 *
		ENDF/B-5	1083			1.123 *	1.620	3.795-3 *
		ENDL-82	1054			1.123 *	1.617	3.793-3 *
	(N,3N)	JEF-1	4755			88.29-3 *		4.433-6 *
		ENDF/B-5	1083			88.29-3 *		4.436-6 *
		ENDL-82	1054			88.29-3 *		4.433-6 *
	CAPTURE	JEF-1	4755	114.5	102.3	1.748+3	4.308-3	143.8-3
		ENDF/B-5	1083	114.1	101.6	1.745+3	4.340-3	142.3-3
		ENDL-82	1054	120.4	105.3	1.763+3	4.290-3	140.7-3 *
75-RE-187	TOTAL	JEF-1	4757	85.65	75.70	620.6	5.229	6.832
		ENDF/B-5	1084	84.92	75.14	617.8	5.229	6.821
		ENDL-82	1055	83.90	73.98	627.4	5.231	6.746 *
	ELASTIC	JEF-1	4757	10.11	10.08	322.5	2.701	4.637
		ENDF/B-5	1084	10.10	10.06	320.8	2.698	4.626
		ENDL-82	1055	8.000	8.000 *	320.2	2.705	4.634 *
	INELAST.	JEF-1	4757			8.197 *	871.7-3	2.072 *
		ENDF/B-5	1084			8.197 *	871.7-3	2.072 *
		ENDL-82	1055			7.726 *	871.7-3	1.949 *
	(N,2N)	JEF-1	4757			1.064 *	1.588	5.798-3 *
		ENDF/B-5	1084			1.064 *	1.588	5.800-3 *
		ENDL-82	1055			1.064 *	1.588	5.797-3 *
	(N,3N)	JEF-1	4757			293.4-3 *	60.00-3	23.81-6 *
		ENDF/B-5	1084			293.4-3 *	60.00-3	23.82-6 *
		ENDL-82	1055			293.4-3 *	60.00-3	23.81-6 *
	CAPTURE	JEF-1	4757	75.44	65.51	288.3	3.258-3	117.2-3
		ENDF/B-5	1084	74.83	65.11	287.4	3.270-3	115.7-3
		ENDL-82	1055	75.88	65.96	297.8	5.948-3	145.7-3 *
79-AU-197	TOTAL	JEF-1	4797	105.6	95.04	1.974+3	5.151	6.510
		ENDF/B-5	1379	105.6	94.75	1.971+3	5.118	6.514
		ENDL-82	1057	106.9	96.22	1.930+3	5.283	6.613 *
	ELASTIC	JEF-1	4797	6.835	6.813	400.0	2.603	4.459
		ENDF/B-5	1379	6.839	6.820	399.5	2.617	4.453
		ENDL-82	1057	7.000	7.000 *	331.4	2.750	4.485 *
	INELAST.	JEF-1	4797			7.546 *	297.9-3	1.980 *
		ENDF/B-5	1379			7.546 *	297.9-3	1.980 *
		ENDL-82	1057			7.679 *	400.0-3	2.020 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.	
79-AU-197	(N,2N)	JEF-1	4797			1.322 *	2.200	3.217-3 *	
		ENDF/B-5	1379			1.322 *	2.200	3.219-3 *	
		ENDL-82	1057			1.324 *	2.120	3.632-3 *	
	(N,3N)	JEF-1	4797			124.4-3 *		3.221-6 *	
		ENDF/B-5	1379			124.4-3 *		3.223-6 *	
		ENDL-82	1057			136.1-3 *		3.363-6 *	
	CAPTURE	JEF-1	4797		98.74	88.22	1.565+3	1.000-3	78.42-3
		ENDF/B-5	1379		98.72	87.93	1.562+3	1.000-3	77.59-3
		ENDL-82	1067		99.82	89.19	1.589+3	10.11-3	81.88-3 *
	(N,P)	JEF-1	4797				1.788-3	1.800-3	1.305-6
		ENDF/B-5	1379				1.788-3	1.800-3	1.306-6
		ENDL-82	1057				1.991-3 *	1.800-3	544.2-9 *
	(N,A)	JEF-1	4797				521.8-6	250.0-6	468.4-9
		ENDF/B-5	1379				521.8-6	250.0-6	468.7-9
		ENDL-82	1057				563.6-6 *	300.0-6	1.051-6 *
82-PB-0	TOTAL	JEF-1	4820	11.37	11.36	171.8	5.400	6.367	
		ENDF/B-5	1382	11.37	11.36	171.8	5.401	6.363	
		ENDL-82	1058	11.19	11.17	168.7	5.495	6.321 *	
		JENDL-2	2820	11.59	11.58	170.6	5.419	6.347	
	ELASTIC	JEF-1	4820	11.19	11.19	166.5	2.899	5.666	
		ENDF/B-5	1382	11.19	11.19	166.5	2.899	5.663	
		ENDL-82	1058	11.00	11.00	162.8	2.944	5.496 *	
		JENDL-2	2820	11.42	11.42	165.5	2.915	5.659	
	INELAST.	JEF-1	4820			3.313 *	343.9-3	690.4-3 *	
		ENDF/B-5	1382			3.474 *	360.1-3	692.6-3 *	
		ENDL-82	1058			3.450 *	400.0-3	798.6-3 *	
		JENDL-2	2820			3.752 *	680.2-3	684.7-3 *	
	(N,2N)	JEF-1	4820			1.255 *	2.157	7.500-3 *	
		ENDF/B-5	1382			1.424 *	2.141	5.307-3 *	
		ENDL-82	1058			1.624 *	2.150	12.79-3 *	
		JENDL-2	2820			1.091 *	1.921	1.477-3 *	
	(N,3N)	JEF-1	4820			447.6-3 *		25.82-6 *	
		ENDF/B-5	1382			111.8-3 *		5.096-6 *	
		ENDL-82	1058			259.0-3 *		13.40-6 *	
		JENDL-2	2820			36.01-3 *		578.3-9 *	
	(N,N+A)	JENDL-2	2820			4.252-3	255.0-6	128.6-9	
	(N,N+P)	JENDL-2	2820			1.046-3 *	32.43-6	30.27-9 *	
	CAPTURE	JEF-1	4820		178.0-3	157.8-3	107.3-3	191.1-6	2.246-3
		ENDF/B-5	1382		178.0-3	157.8-3	107.6-3	1.199-3	2.050-3
		ENDL-82	1058		169.5-3	150.0-3 *	179.9-3	500.0-6	2.201-3 *
		JENDL-2	2820		171.6-3	162.6-3	147.6-3	577.1-6	1.743-3
	(N,P)	JENDL-2	2820			892.0-6	969.7-6	417.4-9	
(N,A)	JENDL-2	2820			3.089-3	1.154-3	411.3-9		
83-BI-209	TOTAL	JEF-1	4839	9.344	9.340	182.4	5.348	6.591	
		ENDF/B-5	1375	9.383	9.381	173.9	5.316	6.499	
		ENDL-82	1059	9.457	9.453	175.0	5.312	6.543	
	ELASTIC	JEF-1	4839	9.307	9.307	176.9	2.731	5.848	
		ENDF/B-5	1375	9.347	9.347	168.5	2.730	5.781	
		ENDL-82	1059	9.347	9.347	168.5	2.730	5.786	
	INELAST.	JEF-1	4839			3.572 *	294.2-3	734.2-3 *	
		ENDF/B-5	1375			3.480 *	350.0-3	711.0-3 *	
		ENDL-82	1059			3.480 *	350.0-3	710.9-3 *	
	(N,2N)	JEF-1	4839			1.590 *	2.320	5.593-3 *	
		ENDF/B-5	1375			1.526 *	2.230	5.835-3 *	
		ENDL-82	1059			1.526 *	2.230	5.832-3 *	
	(N,3N)	JEF-1	4839			137.5-3 *		3.658-6 *	
		ENDF/B-5	1375			144.9-3 *		4.162-6 *	
		ENDL-82	1059			145.6-3 *		4.371-6 *	
	(N,N+A)	JEF-1	4839			24.76-6	12.20-6	2.215-9	
		ENDL-82	1059			307.5-6	100.0-9	12.68-9	
	(N,N+P)	JEF-1	4839			55.72-6 *	25.00-6	5.525-9 *	
	CAPTURE	JEF-1	4839		37.16-3	32.93-3	238.5-3	1.090-3	3.332-3
		ENDF/B-5	1375		33.51-3	29.66-3	174.0-3	980.0-6	1.324-3
		ENDL-82	1059		33.51-3	29.66-3	174.0-3	980.0-6	1.332-3
	(N,P)	JEF-1	4839			530.9-6	540.0-6	285.8-9	
		ENDF/B-5	1375			632.2-6	720.0-6	250.0-9	
		ENDL-82	1059			632.2-6 *	720.0-6	249.8-9 *	
	(N,A)	JEF-1	4839			2.638-3	1.600-3	566.4-9	
		ENDF/B-5	1375			2.431-3	400.0-6	127.7-9	
		ENDL-82	1059			2.431-3 *	400.0-6	127.6-9 *	
90-TH-230	TOTAL	JEF-1	4900	29.07	26.53	1.272+3	6.305	8.421	
		JENDL-2	2902	32.32	30.13	1.413+3	5.644	7.601	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.	
90-TH-230	ELASTIC	JEF-1	4900	5.907	5.880	405.6	3.521	5.344	
		ENDF/B-5	8030	5.907	5.880	405.6	3.521	5.344	
		JENDL-2	2902	9.774	9.750	363.5	3.167	5.437	
	INELAST.	JEF-1	4900			11.07	269.7-3	2.860 *	
		ENDF/B-5	8030			11.07	269.7-3	2.860 *	
		JENDL-2	2902			6.886 *	10.45-3	1.887 *	
	(N,2N)	JEF-1	4900			1.614 *	1.676	16.32-3 *	
		ENDF/B-5	8030			1.614 *	1.676	16.32-3 *	
		JENDL-2	2902			1.115 *	1.340	10.66-3 *	
	(N,3N)	JEF-1	4900			167.0-3 *	177.4-3	24.15-6 *	
		ENDF/B-5	8030			167.0-3 *	177.4-3	24.15-6 *	
		JENDL-2	2902			457.6-3 *	529.0-3	68.55-6 *	
	FISSION	JEF-1	4900		426.6-9	853.4-9	1.133	650.0-3	182.1-3
		ENDF/B-5	8030				1.129	650.0-3	182.1-3
JENDL-2		2902				1.120	597.0-3	178.6-3	
CAPTURE	JEF-1	4900		23.16	20.65	852.0	11.03-3	19.58-3	
	ENDF/B-5	8030		23.16	20.65	852.0	11.03-3	19.58-3	
	JENDL-2	2902		22.55	20.38	1.040+3	16.16-9	87.42-3	
MT - 451	ENDF/B-5	8030		29.07	26.53	1.272+3	6.305	8.421	
90-TH-232	TOTAL	JEF-1	4902	19.23	18.35	312.5	5.700	7.250	
		ENDF/B-5	1390	20.36	19.47	341.4	5.600	7.672	
		ENDL-82	1061	19.34	18.48	338.1	5.712	7.445 *	
		JENDL-2	2903	19.42	18.58	334.2	5.740	7.562	
		KEDAK-4	904232	20.07	19.30	343.1	5.702	7.427 *	
	ELASTIC	JEF-1	4902		11.82	11.81	215.6	2.900	4.797
		ENDF/B-5	1390		12.94	12.91	245.2	2.809	4.752
		ENDL-82	1061		11.87	11.90	232.6	2.850	5.018 *
		JENDL-2	2903		12.16	12.15	243.8	3.266	5.258
		KEDAK-4	904232		12.67	12.66	248.5	2.907	4.977 *
	INELAST.	JEF-1	4902			8.860 *	370.0-3	2.264 *	
		ENDF/B-5	1390			9.780 *	397.0-3	2.737 *	
		ENDL-82	1061			8.677 *	550.0-3	2.216 *	
		JENDL-2	2903			8.032 *	143.0-3	2.126 *	
		KEDAK-4	904232			8.856 *	370.0-3	2.262 *	
	(N,2N)	JEF-1	4902			1.491 *	1.560	16.57-3 *	
		ENDF/B-5	1390			1.326 *	1.430	15.60-3 *	
		ENDL-82	1061			1.351 *	1.300	16.71-3 *	
		JENDL-2	2903			1.197 *	1.181	14.46-3 *	
		KEDAK-4	904232			1.491 *	1.560	16.57-3 *	
	(N,3N)	JEF-1	4902			405.5-3 *	500.0-3	81.84-6 *	
		ENDF/B-5	1390			564.2-3 *	620.0-3	110.0-6 *	
		ENDL-82	1061			447.1-3 *	650.0-3	117.7-6 *	
		JENDL-2	2903			582.2-3 *	800.0-3	113.5-6 *	
		KEDAK-4	904232			405.5-3 *	500.0-3	81.84-6 *	
	FISSION	JEF-1	4902			592.7-3	360.0-3	71.54-3	
		ENDF/B-5	1390			618.5-3	343.0-3	75.05-3	
		ENDL-82	1061			643.2-3 *	355.0-3	77.91-3 *	
		JENDL-2	2903			636.3-3	350.0-3	78.47-3	
		KEDAK-4	904232			592.8-3	360.0-3	71.54-3	
	(N,4N)	ENDL-82	1061			4.617-3 *		41.74-9 *	
	CAPTURE	JEF-1	4902		7.400	6.532	85.62	5.291-3	100.6-3
ENDF/B-5		1390		7.405	6.550	83.96	1.500-3	91.64-3	
ENDL-82		1061		7.433	6.550 *	93.87	5.400-3	98.22-3 *	
JENDL-2		2903		7.258	6.427	79.93		85.78-3	
KEDAK-4		904232		7.399	6.549 *	83.16	5.319-3	99.64-3 *	
91-PA-231	TOTAL	JEF-1	4911	235.8	209.1	778.7	6.438	8.423	
		ENDF/B-5	8131	235.8	209.0	778.4	6.438	8.423	
	ELASTIC	JEF-1	4911		8.521	8.378	150.8	2.782	4.748
		ENDF/B-5	8131		8.519	8.387	150.7	2.782	4.748
	INELAST.	JEF-1	4911			10.24	186.7-3	2.293 *	
		ENDF/B-5	8131			10.24	186.7-3	2.293 *	
	(N,2N)	JEF-1	4911			1.168 *	1.328	10.95-3 *	
		ENDF/B-5	8131			1.168 *	1.328	10.95-3 *	
	(N,3N)	JEF-1	4911			193.5-3 *	57.25-3	12.07-6 *	
		ENDF/B-5	8131			193.5-3 *	57.25-3	12.07-6 *	
	FISSION	JEF-1	4911		10.40-3	9.376-3	5.118	1.972	990.6-3
		ENDF/B-5	8131		10.40-3	9.372-3	5.109	1.972	990.6-3
	CAPTURE	JEF-1	4911		227.2	200.6	611.0	112.2-3	380.0-3
		ENDF/B-5	8131		227.2	200.6	611.0	112.2-3	380.2-3
91-PA-233	TOTAL	JEF-1	4913	49.95	44.44	1.031+3	5.430	7.305	
		ENDF/B-5	1391	49.80	44.31	1.030+3	5.430	7.302	
		ENDL-82	1063	50.19	44.59	1.032+3	5.390	7.312 *	
		JENDL-2	2911	53.82	48.02	968.7	5.669	7.597	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
91-PA-233	ELASTIC	JEF-1	4913	8.341	8.316	157.2	3.015	4.481	
		ENDF/B-5	1391	8.341	8.316	157.3	3.015	4.479	
		ENDL-82	1063	8.337	8.304 *	157.5	2.982	4.475 *	
		JENDL-2	2911	11.02	11.02	175.8	3.000	4.979	
	INELAST.	JEF-1	4913			12.16	88.00-3	2.167 *	
		ENDF/B-5	1391			12.16	88.00-3	2.168 *	
		ENDL-82	1063			12.15	88.29-3	2.167 *	
		JENDL-2	2911			6.988 *	103.7-3	1.499 *	
	(N,2N)	JEF-1	4913			488.8-3 *	519.5-3	4.472-3 *	
		ENDF/B-5	1391			488.8-3 *	519.5-3	4.472-3 *	
		ENDL-82	1063			487.1-3 *	518.5-3	4.457-3 *	
		JENDL-2	2911			487.6-3 *	369.6-3	5.773-3 *	
	(N,3N)	JEF-1	4913			319.1-3 *	210.0-3	40.26-6 *	
		ENDF/B-5	1391			319.1-3 *	210.0-3	40.26-6 *	
		ENDL-82	1063			319.1-3 *	210.0-3	40.24-6 *	
		JENDL-2	2911			231.0-3 *	418.4-3	52.40-6 *	
	FISSION	JEF-1	4913			2.947	1.588	468.2-3	
		ENDF/B-5	1391			2.947	1.588	468.1-3	
		ENDL-82	1063			2.949 *	1.584	468.3-3 *	
		JENDL-2	2911			4.684	1.770	990.8-3	
	CAPTURE	JEF-1	4913			857.6	6.660-3	184.0-3	
		ENDF/B-5	1391			856.4	6.660-3	182.7-3	
		ENDL-82	1063			858.2	6.700-3	184.3-3 *	
		JENDL-2	2911			779.6	7.400-3	122.2-3	
92-U -232	TOTAL	JEF-1	4922	158.3	137.3	928.3	6.380	8.556	
		ENDF/B-5	8232	158.3	137.3	928.3	6.379	8.557	
	ELASTIC	JEF-1	4922	7.552	7.507	172.4	3.006	4.675	
		ENDF/B-5	8232	7.552	7.507	172.4	3.006	4.675	
	INELAST.	JEF-1	4922			5.376 *	191.6-3	1.280 *	
		ENDF/B-5	8232			5.376 *	191.6-3	1.280 *	
	(N,2N)	JEF-1	4922			1.385 *	1.712	7.803-3 *	
		ENDF/B-5	8232			1.385 *	1.712	7.803-3 *	
	(N,3N)	JEF-1	4922			269.1-3 *	176.5-3	24.73-6 *	
		ENDF/B-5	8232			269.1-3 *	176.5-3	24.73-6 *	
	FISSION	JEF-1	4922			430.3	1.238	2.492	
		ENDF/B-5	8232			430.3	1.238	2.492	
	CAPTURE	JEF-1	4922			318.5	56.05-3	101.9-3	
		ENDF/B-5	8232			318.5	56.05-3	101.9-3	
	92-U -233	TOTAL	JEF-1	4923	589.3	522.1	1.071+3	6.028	7.251
			ENDF/B-5	1393	587.2	521.0	1.069+3	5.750	7.646
			ENDL-82	1064	585.5	548.6	1.059+3	5.945	7.219 *
			JENDL-2	2921	587.9	524.9	1.089+3	5.770	7.686
			KEDAK-4	924233	588.5	520.8	1.074+3	6.028	7.353
		ELASTIC	JEF-1	4923	14.48	14.22	166.6	3.022	4.207
			ENDF/B-5	1393	12.60	12.40	172.4	2.815	4.781
			ENDL-82	1064	14.45	14.19	166.4	3.042	4.206 *
			JENDL-2	2921	12.70	12.73	175.5	3.278	4.806
KEDAK-4			924233	14.42	14.19	168.8	3.042	4.306	
INELAST.		JEF-1	4923			4.402 *	88.00-3	1.147 *	
		ENDF/B-5	1393			3.384 *	145.2-3	899.7-3 *	
		ENDL-82	1064			3.495 *	130.0-3	1.047 *	
		JENDL-2	2921			2.958 *	11.30-6	904.7-3 *	
		KEDAK-4	924233			4.402 *	88.00-3	1.147 *	
(N,2N)		JEF-1	4923			513.2-3 *	480.0-3	8.887-3 *	
		ENDF/B-5	1393			360.4-3 *	511.0-3	5.659-3 *	
		ENDL-82	1064			504.1-3 *	470.0-3	5.253-3 *	
		JENDL-2	2921			195.2-3 *	135.0-3	4.153-3 *	
		KEDAK-4	924233			512.3-3 *	480.0-3	8.786-3 *	
(N,3N)	JEF-1	4923			37.40-3 *	40.00-3	5.014-6 *		
	ENDF/B-5	1393			29.34-3 *	3.000-3	1.358-6 *		
	ENDL-82	1064			110.9-3 *	50.00-3	9.256-6 *		
	JENDL-2	2921			64.81-3 *	37.30-3	6.032-6 *		
	KEDAK-4	924233			37.04-3 *	40.00-3	4.716-6 *		
FISSION	JEF-1	4923			764.3	2.370	1.839		
	ENDF/B-5	1393			756.0	2.278	1.906		
	ENDL-82	1064			490.3	2.250	1.899 *		
	JENDL-2	2921			470.8	2.320	1.888		
	KEDAK-4	924233			464.2	2.370	1.837		
CAPTURE	JEF-1	4923			134.9	7.528-3	61.89-3		
	ENDF/B-5	1393			136.6	2.000-3	54.68-3 *		
	ENDL-82	1064			133.9	2.800-3	61.46-3 *		
	JENDL-2	2921			138.7	368.0-9	82.32-3		
	KEDAK-4	924233			134.9	7.528-3	61.75-3		
92-U -234	TOTAL	JEF-1	4924	116.2	103.4	934.4	5.531	8.526	
		ENDF/B-5	1394	115.8	103.1	932.8	5.531	8.510	
		ENDL-82	1065	111.6	105.2	280.9	5.789	7.593 *	
		JENDL-2	2922	110.2	98.40	949.5	5.742	7.456	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.	
92-U -234	ELASTIC	JEF-1	4924	12.32	12.25	258.6	2.780	5.302	
		ENDF/B-5	1394	12.30	12.22	258.3	2.780	5.297	
		ENDL-82	1065	12.00	12.00	176.2	2.963	5.055 *	
		JENDL-2	2922	14.72	14.58	329.3	3.066	5.086	
	INELAST.	JEF-1	4924			7.463 *	150.0-3	1.810 *	
		ENDF/B-5	1394			7.463 *	150.0-3	1.811 *	
		ENDL-82	1065			3.901 *	150.0-3	1.167 *	
		JENDL-2	2922			4.222 *	393.9-3	1.062 *	
	(N,2N)	JEF-1	4924			257.8-3 *	382.0-3	1.545-3 *	
		ENDF/B-5	1394			257.8-3 *	382.0-3	1.545-3 *	
		ENDL-82	1065			480.0-3 *	250.0-3	6.399-3 *	
		JENDL-2	2922			219.8-3 *	220.9-3	1.957-3 *	
	(N,3N)	JEF-1	4924			86.02-3 *	150.0-3	16.11-6 *	
		ENDF/B-5	1394			86.02-3 *	150.0-3	16.12-6 *	
		ENDL-82	1065			156.0-3 *	300.0-3	34.36-6 *	
		JENDL-2	2922			81.94-3 *	127.8-3	14.39-6 *	
	FISSION	JEF-1	4924		465.7-3	408.1-3	6.540	2.059	1.227
		ENDF/B-5	1394		464.2-3	406.7-3	6.539	2.059	1.227
		ENDL-82	1065				5.957 *	2.121	1.224 *
		JENDL-2	2922		6.367-3	5.684-3	6.440	1.934	1.199
	CAPTURE	JEF-1	4924		103.4	90.76	661.2	10.27-3	174.8-3
		ENDF/B-5	1394		103.1	90.44	660.2	10.30-3	174.0-3
		ENDL-82	1065		99.62	93.20	94.16	5.000-3	140.2-3 *
		JENDL-2	2922		95.44	83.82	609.1	2.722-6	105.9-3
92-U -235	TOTAL	JEF-1	4925	696.6	605.8	600.9	5.840	7.617	
		ENDF/B-5	1395	696.6	606.1	600.6	5.845	7.614	
		ENDL-82	1066	717.9	617.0	609.0	5.793	7.546 *	
		JENDL-2	2923	697.0	607.3	614.0	5.855	7.642	
		KEDAK-4	920235	699.5	605.3	589.3	5.854	7.639 *	
	ELASTIC	JEF-1	4925	14.71	14.62	173.5	2.877	4.804	
		ENDF/B-5	1395	14.71	14.63	173.8	3.220	4.803	
		ENDL-82	1066	14.99	14.98	178.3	2.936	4.624 *	
		JENDL-2	2923	17.00	16.76	174.4	3.057	4.598	
		KEDAK-4	920235	12.29	12.24	174.4	3.286	4.725 *	
	INELAST.	JEF-1	4925			5.562 *	225.0-3	1.470 *	
		ENDF/B-5	1395			5.562 *	225.0-3	1.471 *	
		ENDL-82	1066			6.336 *	370.0-3	1.584 *	
		JENDL-2	2923			6.795 *	514.1-3	1.651 *	
		KEDAK-4	920235			6.012 *	292.0-3	1.556 *	
	(N,2N)	JEF-1	4925			634.2-3 *	651.3-3	9.666-3 *	
		ENDF/B-5	1395			353.7-3 *	296.0-3	7.920-3 *	
		ENDL-82	1066			578.9-3 *	362.5-3	11.29-3 *	
		JENDL-2	2923			483.2-3 *	191.3-3	12.78-3 *	
		KEDAK-4	920235			409.2-3 *	123.0-3	10.11-3 *	
	(N,3N)	JEF-1	4925			68.76-3 *	16.02-3	4.855-6 *	
		ENDF/B-5	1395			30.27-3 *	32.00-3	4.858-6 *	
		ENDL-82	1066			60.20-3 *	73.75-3	10.15-6 *	
		JENDL-2	2923			66.07-3 *	41.70-3	7.061-6 *	
KEDAK-4		920235			8.085-3 *	59.00-3	4.928-6 *		
FISSION	JEF-1	4925		583.5	505.6	281.9	2.068	1.236	
	ENDF/B-5	1395		583.9	505.8	281.7	2.068	1.235	
	ENDL-82	1066		602.0	513.7	284.0	2.046	1.232 *	
	JENDL-2	2923		584.0	503.3	278.8	2.051	1.248	
	KEDAK-4	920235		587.9	507.3	269.1	2.092	1.256 *	
(N,4N)	JENDL-2	2923				911.7-6 *		8.445-9 *	
CAPTURE	JEF-1	4925		98.38	85.65	139.3	2.351-3	97.75-3	
	ENDF/B-5	1395		98.44	85.69	139.2	2.351-3	97.27-3	
	ENDL-82	1066		100.9	88.28	139.8	3.800-3	94.00-3 *	
	JENDL-2	2923		96.00	84.95	153.4	3.146-6	131.0-3	
	KEDAK-4	920235		99.43	85.73	142.7	2.155-3	92.76-3 *	
92-U -236	TOTAL	JEF-1	4926	13.29	12.75	647.0	5.668	8.087	
		ENDF/B-5	1396	13.27	12.69	646.0	5.668	8.083	
		ENDL-82	1067	17.50	17.05	1.021+3	5.805	7.614 *	
		JENDL-2	2924	13.68	13.09	646.7	5.826	7.753	
	ELASTIC	JEF-1	4926	8.067	8.059	282.7	2.780	5.356	
		ENDF/B-5	1396	8.069	8.063	282.5	2.780	5.355	
		ENDL-82	1067	12.00	12.00	176.3	2.989	5.065 *	
		JENDL-2	2924	8.337	8.331	285.3	3.110	5.451	
	INELAST.	JEF-1	4926			7.880 *	150.0-3	1.955 *	
		ENDF/B-5	1396			7.880 *	150.0-3	1.956 *	
		ENDL-82	1067			6.097 *	250.0-3	1.787 *	
		JENDL-2	2924			5.701 *	1.144-3	1.555 *	
(N,2N)	JEF-1	4926			648.5-3 *	550.0-3	8.153-3 *		
	ENDF/B-5	1396			648.5-3 *	550.0-3	8.156-3 *		
	ENDL-82	1067			760.6-3 *	250.0-3	13.45-3 *		
	JENDL-2	2924			632.2-3 *	424.0-3	8.476-3 *		

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.	
92-U -236	(N, 3N)	JEF-1	4926			288.7-3 *	550.0-3	79.69-6 *	
		ENDF/B-5	1396			288.7-3 *	550.0-3	79.73-6 *	
		ENDL-82	1067			295.6-3 *	700.0-3	125.3-6 *	
		JENDL-2	2924			356.2-3 *	661.0-3	95.75-6 *	
	FISSION	JEF-1	4926	46.97-3	41.78-3	7.776	1.628	590.0-3	
		ENDF/B-5	1396	46.80-3	41.64-3	7.768	1.628	590.1-3	
		ENDL-82	1067	600.0-3	500.0-3 *	5.800	1.610	576.6-3 *	
		JENDL-2	2924	42.96-3	38.36-3	7.611	1.630	595.9-3	
	CAPTURE	JEF-1	4926	5.176	4.596	347.5	10.27-3	174.4-3	
		ENDF/B-5	1396	5.157	4.581	347.0	10.30-3	173.8-3	
		ENDL-82	1067	5.000	4.548 *	831.3	6.571-3	172.4-3 *	
		JENDL-2	2924	5.295	4.717	347.2		141.5-3	
92-U -237	TOTAL	JEF-1	4927	487.5	430.0	528.2	5.885	7.401	
		ENDF/B-5	8237	487.1	428.2	526.8	5.881	7.386	
		ENDL-82	1068	394.5	353.8	660.7	5.881	7.524 *	
		KEDAK-4	920237			50.40		1.902 *	
	ELASTIC	JEF-1	4927	9.129	9.126	199.6	3.022	4.657	
		ENDF/B-5	8237	9.131	9.129	199.1	3.020	4.648	
		ENDL-82	1068	13.92	13.89	181.9	3.020	4.661 *	
		KEDAK-4	920237			40.61		1.410 *	
	INELAST.	JEF-1	4927			6.810 *	267.1-3	1.936 *	
		ENDF/B-5	8237			6.810 *	267.1-3	1.936 *	
		ENDL-82	1068			8.620 *	267.1-3	2.081 *	
		KEDAK-4	920237			4.068 *		281.9-3 *	
	(N, 2N)	JEF-1	4927			951.6-3 *	321.4-3	23.79-3 *	
		ENDF/B-5	8237			951.6-3 *	321.4-3	23.79-3 *	
		ENDL-82	1068			951.6-3 *	321.4-3	23.79-3 *	
	(N, 3N)	JEF-1	4927			362.3-3 *	778.6-3	164.8-6 *	
		ENDF/B-5	8237			362.3-3 *	778.6-3	164.8-6 *	
		ENDL-82	1068			362.3-3 *	778.6-3	164.8-6 *	
	FISSION	JEF-1	4927	2.002	1.761	9.223	1.491	695.2-3	
		ENDF/B-5	8237	2.000	1.754	9.216	1.491	695.4-3	
		ENDL-82	1068	350.0-3	350.0-3 *	95.45	1.491	652.1-3 *	
		KEDAK-4	920237			3.631 *		167.8-3 *	
	CAPTURE	JEF-1	4927	476.3	419.1	310.8	3.000-3	82.33-3	
		ENDF/B-5	8237	476.0	417.3	310.3	3.000-3	82.41-3	
		ENDL-82	1068	380.3	339.6	373.5	3.000-3	106.1-3 *	
		KEDAK-4	920237			2.082 *		41.66-3 *	
	92-U -238	TOTAL	JEF-1	4928	11.57	11.28	632.5	5.799	7.794
			ENDF/B-5	1398	11.60	11.34	637.2	5.880	7.786
			ENDL-82	1069	10.69	10.32	598.7	5.850	7.796 *
			JENDL-2	2925	11.57	11.28	632.5	5.799	7.794
KEDAK-4			920238	12.06	11.80	635.5	5.846	7.814 *	
ELASTIC		JEF-1	4928	8.873	8.870	342.0	2.950	5.295	
		ENDF/B-5	1398	8.897	8.894	344.2	2.834	4.818	
		ENDL-82	1069	7.950	7.878 *	311.0	2.985	4.853 *	
		JENDL-2	2925	8.873	8.870	342.0	2.950	5.295	
		KEDAK-4	920238	9.380	9.375 *	345.3	2.982	5.517 *	
INELAST.		JEF-1	4928			8.129 *	319.0-3	2.102 *	
		ENDF/B-5	1398			10.17	595.0-3	2.577 *	
		ENDL-82	1069			10.06	403.0-3	2.536 *	
		JENDL-2	2925			8.129 *	319.0-3	2.102 *	
		KEDAK-4	920238			7.718 *	337.0-3	1.904 *	
(N, 2N)		JEF-1	4928			970.5-3 *	910.0-3	15.37-3 *	
		ENDF/B-5	1398			998.7-3 *	880.0-3	15.49-3 *	
		ENDL-82	1069			1.074 *	897.1-3	16.59-3 *	
		JENDL-2	2925			970.5-3 *	910.0-3	15.37-3 *	
		KEDAK-4	920238			966.0-3 *	906.7-3	16.84-3 *	
(N, 3N)		JEF-1	4928			224.6-3 *	500.0-3	82.83-6 *	
		ENDF/B-5	1398			321.4-3 *	450.0-3	67.54-6 *	
		ENDL-82	1069			306.1-3 *	434.3-3	83.14-6 *	
		JENDL-2	2925			224.6-3 *	500.0-3	82.83-6 *	
		KEDAK-4	920238			80.64-3 *	493.2-3	63.25-6 *	
FISSION		JEF-1	4928	3.220-6	2.868-6	2.053	1.117	314.8-3	
		ENDF/B-5	1398	5.280-6	4.682-6	2.032	1.120	305.2-3	
		ENDL-82	1069			2.056 *	1.129	313.1-3 *	
		JENDL-2	2925	3.220-6	2.868-6	2.053	1.117	314.8-3	
		KEDAK-4	920238			1.654 *	1.126	304.6-3 *	
CAPTURE	JEF-1	4928	2.700	2.407	279.1	3.395-3	66.75-3		
	ENDF/B-5	1398	2.700	2.400	279.5	1.250-3	69.93-3		
	ENDL-82	1069	2.736	2.440 *	274.2	1.000-3	76.94-3 *		
	JENDL-2	2925	2.700	2.407	279.1	3.395-3	66.75-3		
	KEDAK-4	920238	2.680	2.385 *	279.6	1.000-3	72.96-3 *		
93-NP-237	TOTAL	JEF-1	4937	195.8	173.7	851.6	5.732	7.560	
		ENDF/B-5	1337	186.7	163.1	838.2	5.588	7.777	
		ENDL-82	1072	187.3	163.4	810.7	6.115	7.814 *	
		JENDL-2	2931	208.5	185.3	875.8	5.539	7.800	
		KEDAK-4	930237	186.6	167.0	842.4	5.863	7.867 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.	
93-NP-237	ELASTIC	JEF-1	4937	14.75	14.55	183.6	2.793	4.538	
		ENDF/B-5	1337	17.53	17.30	183.6	2.972	4.584	
		ENDL-82	1072	17.57	17.37	204.4	2.908	4.820 *	
		JENDL-2	2931	27.52	27.19	200.2	2.787	5.008	
		KEDAK-4	930237	17.43	17.24	186.6	2.839	4.979 *	
	INELAST.	JEF-1	4937			6.429 *	267.8-3	1.528 *	
		ENDF/B-5	1337			7.124 *	5.000-3	1.678 *	
		ENDL-82	1072			6.509 *	150.0-3	1.518 *	
		JENDL-2	2931			6.183 *	105.6-3	1.321 *	
		KEDAK-4	930237			6.265 *	10.00-3	1.436 *	
	(N,2N)	JEF-1	4937			312.9-3 *	489.3-3	2.373-3 *	
		ENDF/B-5	1337			149.8-3 *	191.4-3	1.433-3 *	
		ENDL-82	1072			480.8-3 *	500.0-3	4.204-3 *	
		JENDL-2	2931			368.7-3 *	446.2-3	3.301-3 *	
		KEDAK-4	930237			359.6-3 *	513.0-3	3.831-3 *	
	(N,3N)	JEF-1	4937			55.19-3 *	36.15-3	5.804-6 *	
		ENDF/B-5	1337			63.59-3 *	80.69-3	9.796-6 *	
		ENDL-82	1072			299.1-3 *	500.0-3	67.27-6 *	
		JENDL-2	2931			123.1-3 *	72.03-3	11.70-6 *	
		KEDAK-4	930237			19.51-3 *	137.0-3	10.25-6 *	
	FISSION	JEF-1	4937				2.111	1.304	
		ENDF/B-5	1337				2.337	1.347	
		ENDL-82	1072				2.053	1.299 *	
		JENDL-2	2931				2.128	1.293	
KEDAK-4		930237				2.360	1.281 *		
CAPTURE	JEF-1	4937				38.12-3	189.0-3		
	ENDF/B-5	1337				3.500-3	165.9-3		
	ENDL-82	1072				4.912-3	172.0-3 *		
	JENDL-2	2931				228.6-9	173.4-3		
	KEDAK-4	930237				4.000-3	167.5-3 *		
93-NP-238	TOTAL	JEF-1	4938	2.268+3	1.986+3	1.194+3	10.40	10.40	
		ENDF/B-5	8338	2.268+3	1.986+3	1.195+3	10.40	10.40	
	ELASTIC	JEF-1	4938	21.29	21.11	196.5	10.40	10.40	
		ENDF/B-5	8338	21.25	21.05	196.2	10.40	10.40	
	FISSION	JEF-1	4938	2.042+3	1.786+3	897.8		2.069-3	
		ENDF/B-5	8338	2.042+3	1.786+3	898.5		2.172-3	
	CAPTURE	JEF-1	4938	204.4	178.8	100.3		300.8-6	
		ENDF/B-5	8338	204.4	178.8	100.4		312.2-6	
	93-NP-239	TOTAL	JEF-1	4939	47.50	43.42	648.9	5.523	7.812
			JENDL-2	2932	47.50	43.42	648.9	5.523	7.812
		ELASTIC	JEF-1	4939	10.50	10.50	188.8	2.640	4.699
			JENDL-2	2932	10.50	10.50	188.8	2.640	4.699
INELAST.		JEF-1	4939			7.090 *	73.67-3	1.453 *	
		JENDL-2	2932			7.090 *	73.67-3	1.453 *	
(N,2N)		JEF-1	4939			241.8-3 *	143.0-3	3.667-3 *	
		JENDL-2	2932			241.8-3 *	143.0-3	3.667-3 *	
(N,3N)		JEF-1	4939			129.8-3 *	246.3-3	36.09-6 *	
		JENDL-2	2932			129.8-3 *	246.3-3	36.09-6 *	
FISSION		JEF-1	4939			7.062	2.420	1.458	
		JENDL-2	2932			7.062	2.420	1.458	
CAPTURE		JEF-1	4939			37.00	10.00-6	194.2-3	
		JENDL-2	2932			37.00	10.00-6	194.2-3	
94-PU-236		TOTAL	JEF-1	4946	346.4	307.4	845.9	6.921	7.505
			ENDF/B-5	8436	346.4	307.4	844.6	6.921	7.498
			JENDL-2	2941	833.4	804.8	1.478+3	6.515	8.452
		ELASTIC	JEF-1	4946	21.25	21.10	202.6	3.313	4.553
	ENDF/B-5		8436	21.22	21.04	202.1	3.313	4.553	
	JENDL-2		2941	3.376	3.012	307.2	3.426	5.802	
	INELAST.	JEF-1	4946			3.030 *	112.0-3	756.1-3 *	
		ENDF/B-5	8436			3.030 *	112.0-3	756.1-3 *	
		JENDL-2	2941			2.098 *	93.93-6	418.2-3 *	
	(N,2N)	JEF-1	4946			416.2-3 *	658.0-3	2.992-3 *	
		ENDF/B-5	8436			416.2-3 *	658.0-3	2.992-3 *	
		JENDL-2	2941			35.73-3 *	17.37-3	317.5-6 *	
	(N,3N)	JEF-1	4946			266.8-3 *	200.0-3	32.62-6 *	
		ENDF/B-5	8436			266.8-3 *	200.0-3	32.62-6 *	
		JENDL-2	2941			3.620-3 *	704.0-6	278.9-9 *	
	FISSION	JEF-1	4946	162.6	143.2	325.2	2.630	2.141	
		ENDF/B-5	8436	162.6	143.2	325.0	2.630	2.142	
		JENDL-2	2941	65.41	63.19	100.8	3.071	2.081	
	CAPTURE	JEF-1	4946	162.6	143.2	313.9	8.000-3	44.33-3	
		ENDF/B-5	8436	162.6	143.2	313.7	8.000-3	44.32-3	
		JENDL-2	2941	764.6	738.7	1.068+3	4.023-6	149.7-3	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
94-PU-237	TOTAL	JEF-1	4947	2.652+3	2.356+3	1.445+3	6.429	7.547	
		ENDF/B-5	8437	2.652+3	16.08+3	2.074+3	6.429	7.547	
	ELASTIC	JEF-1	4947	11.73	11.73	165.3	3.321	4.230	
		ENDF/B-5	8437	11.73	11.73	165.3	3.321	4.230	
	INELAST.	JEF-1	4947			912.2-3 *	4.800-3	270.8-3 *	
		ENDF/B-5	8437			912.2-3 *	4.800-3	270.8-3 *	
	(N,2N)	JEF-1	4947			204.8-3 *	308.0-3	2.215-3 *	
		ENDF/B-5	8437			204.8-3 *	308.0-3	2.215-3 *	
(N,3N)	JEF-1	4947			132.4-3 *	100.0-3	17.03-6 *		
	ENDF/B-5	8437			132.4-3 *	100.0-3	17.03-6 *		
FISSION	JEF-1	4947			1.085+3	2.693	3.012		
	ENDF/B-5	8437			1.084+3	2.693	3.012		
CAPTURE	JEF-1	4947			190.4	2.400-3	31.04-3		
	ENDF/B-5	8437			190.4	2.400-3	31.04-3		
94-PU-238	TOTAL	JEF-1	4948	584.1	497.4	404.6	5.865	7.807	
		ENDF/B-5	1338	598.9	510.1	481.7	7.076	7.585	
		ENDL-82	1073	585.7	498.2	446.5	5.961	7.775 *	
		JENDL-2	2942	592.9	508.2	491.7	10.15	10.79	
		KEDAK-4	940238	575.5	488.5	405.8	5.506	7.793 *	
		ELASTIC	JEF-1	4948	19.88	19.42	224.6	2.756	4.518
	ENDF/B-5	1338	20.31	19.86	282.4	3.266	4.633		
	ENDL-82	1073	22.03	20.98	268.4	3.000	4.655 *		
	JENDL-2	2942	27.60	27.05	291.6	3.556	6.302		
	KEDAK-4	940238	17.03	16.60	211.8	2.771	4.801 *		
	INELAST.	JEF-1	4948			4.752 *	315.0-3	1.234 *	
	ENDF/B-5	1338				2.972 *		824.5-3 *	
	ENDL-82	1073				3.576 *	10.00-3	958.5-3 *	
	JENDL-2	2942				10.82	3.168	2.154 *	
	KEDAK-4	940238				3.961 *		934.0-3 *	
	(N,2N)	JEF-1	4948			89.90-3 *	55.00-3	785.0-6 *	
	ENDF/B-5	1338				562.0-3 *	630.4-3	4.411-3 *	
	ENDL-82	1073				296.6-3 *	123.2-3	5.035-3 *	
	JENDL-2	2942				319.3-3 *	419.1-3	2.830-3 *	
	KEDAK-4	940238				102.5-3 *	26.00-3	1.603-3 *	
	(N,3N)	JEF-1	4948			1.211-3 *	35.00-3	929.4-9 *	
	ENDF/B-5	1338				369.9-3 *	500.0-3	60.44-6 *	
	ENDL-82	1073				78.30-3 *	102.4-3	12.49-6 *	
	JENDL-2	2942				163.9-3 *	155.5-3	20.84-6 *	
	KEDAK-4	940238				2.663-3 *	24.00-3	1.473-6 *	
	FISSION	JEF-1	4948			31.54	2.702	1.978	
	ENDF/B-5	1338				17.03	2.668	1.977	
	ENDL-82	1073				16.31	2.717	2.044 *	
	JENDL-2	2942				16.55	2.722	2.011	
	KEDAK-4	940238				17.02	2.680	1.931 *	
	CAPTURE	JEF-1	4948			547.0	2.100-3	75.08-3	
	ENDF/B-5	1338				561.5	11.43-3	145.4-3	
	ENDL-82	1073				547.3	8.750-3	112.6-3 *	
	JENDL-2	2942				548.8	132.9-3	318.8-3	
	KEDAK-4	940238				541.5	5.000-3	125.7-3 *	
	94-PU-239	TOTAL	JEF-1	4949	1.028+3	973.8	677.8	5.872	7.711
			ENDF/B-5	1399	1.020+3	973.4	677.3	5.988	7.709
			ENDL-82	1074	1.075+3	1.015+3 *	720.7	5.892	7.744 *
			JENDL-2	2943	1.020+3	973.1	676.1	5.872	7.711
			KEDAK-4	940239	1.023+3	971.0	677.3	5.911	7.705 *
			ELASTIC	JEF-1	4949	8.779	8.550	178.4	2.871
		ENDF/B-5	1399	8.002	7.812	174.6	2.995	4.628	
		ENDL-82	1074	10.96	9.658 *	204.1	2.950	4.720 *	
		JENDL-2	2943	8.000	7.816	172.9	2.633	4.430	
		KEDAK-4	940239	7.969	7.790 *	173.9	2.602	4.782 *	
		INELAST.	JEF-1	4949			5.609 *	402.7-3	1.392 *
		ENDF/B-5	1399				4.981 *	225.5-3	1.246 *
		ENDL-82	1074				4.145 *	389.0-3	1.195 *
JENDL-2		2943				5.609 *	402.7-3	1.392 *	
KEDAK-4		940239				4.668 *	191.0-3	1.078 *	
(N,2N)		JEF-1	4949			378.4-3 *	284.9-3	9.630-3 *	
ENDF/B-5		1399				182.6-3 *	205.0-3	3.315-3 *	
ENDL-82		1074				321.9-3 *	220.0-3	5.120-3 *	
JENDL-2		2943				459.4-3 *	347.0-3	10.63-3 *	
KEDAK-4		940239				443.6-3 *	313.0-3	11.88-3 *	
(N,3N)		JEF-1	4949			18.41-3 *	4.571-3	1.308-6 *	
ENDF/B-5		1399				28.59-3 *	22.00-3	3.623-6 *	
ENDL-82		1074				62.78-3 *	80.00-3	11.19-6 *	
JENDL-2		2943				164.3-3 *	181.0-3	21.78-6 *	
KEDAK-4		940239				34.88-3 *	250.0-3	20.66-6 *	
FISSION		JEF-1	4949			748.1	2.308	1.818	
ENDF/B-5		1399				741.7	2.538	1.791	
ENDL-82		1074				785.7	2.252	1.780 *	
JENDL-2		2943				741.7	2.308	1.818	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.
94-PU-239	FISSION	KEDAK-4	940239	745.3	692.0	304.2	2.556	1.787 *
		(N,4N)	JEF-1	4949			5.583-3 *	45.89-9 *
		ENDL-82	1074			525.9-6 *	4.559-9 *	
			JENDL-2	2943			5.583-3 *	45.89-9 *
	CAPTURE	JEF-1	4949	271.0	270.2	188.5	1.349-9	60.77-3
		ENDF/B-5	1399	270.2	271.0	193.9	2.440-3	40.43-3
		ENDL-82	1074	278.0	286.4	205.3	1.600-3	42.66-3 *
		JENDL-2	2943	270.2	271.0	195.4	1.349-9	60.78-3
		KEDAK-4	940239	270.7	270.2	194.0	2.550-3	38.71-3 *
94-PU-240	TOTAL	JEF-1	4940	290.1	264.9	9.415+3	5.888	7.847
		ENDF/B-5	1380	291.5	265.3	8.788+3	6.125	7.610
		ENDL-82	1075	307.0	278.7	9.324+3	5.504	7.455 *
		JENDL-2	2944	290.1	264.9	9.415+3	5.888	7.847
		KEDAK-4	940240	289.3	260.5	8.777+3 *	5.738	7.600 *
	ELASTIC	JEF-1	4940	1.509	1.389	943.9	3.202	4.965
		ENDF/B-5	1380	1.553	1.444	802.0	3.407	4.617
		ENDL-82	1075	5.440	4.912 *	978.0	2.550	4.415 *
		JENDL-2	2944	1.509	1.389	943.9	3.202	4.965
		KEDAK-4	940240	2.301	2.169 *	796.0	3.149	5.015 *
INELAST.	JEF-1	4940			6.482 *	7.274-3	1.421 *	
	ENDF/B-5	1380			6.705 *	185.0-3	1.552 *	
	ENDL-82	1075			6.533 *	350.0-3	1.539 *	
	JENDL-2	2944			6.482 *	7.274-3	1.421 *	
	KEDAK-4	940240			5.303 *		1.193 *	
(N,2N)	JEF-1	4940			374.5-3 *	427.2-3	3.920-3 *	
	ENDF/B-5	1380			150.6-3 *	192.0-3	1.463-3 *	
	ENDL-82	1075			211.7-3 *	100.0-3	3.716-3 *	
	JENDL-2	2944			374.5-3 *	427.2-3	3.920-3 *	
	KEDAK-4	940240			309.1-3 *	119.0-3	4.318-3 *	
(N,3N)	JEF-1	4940			142.3-3 *	129.8-3	18.36-6 *	
	ENDF/B-5	1380			48.70-3 *	79.00-3	10.29-6 *	
	ENDL-82	1075			83.30-3 *	150.0-3	21.24-6 *	
	JENDL-2	2944			142.3-3 *	129.8-3	18.36-6 *	
	KEDAK-4	940240			52.00-3 *	332.3-3	37.79-6 *	
FISSION	JEF-1	4940	67.61-3	61.45-3	10.09	2.121	1.364	
	ENDF/B-5	1380	57.09-3	51.85-3	8.830	2.260	1.352	
	ENDL-82	1075	60.14-3	54.54-3 *	10.03	2.345	1.408 *	
	JENDL-2	2944	67.61-3	61.45-3	10.09	2.121	1.364	
	KEDAK-4	940240	61.21-3	54.94-3 *	8.359 *	2.135	1.276 *	
(N,4N)	JEF-1	4940			809.3-6 *		5.611-9 *	
	JENDL-2	2944			809.6-6 *		5.613-9 *	
CAPTURE	JEF-1	4940	288.5	263.4	8.454+3	800.0-6	92.74-3	
	ENDF/B-5	1380	289.9	263.8	7.971+3	2.400-3	87.21-3	
	ENDL-82	1075	301.5	273.8	8.329+3	8.750-3	91.05-3 *	
	JENDL-2	2944	288.5	263.4	8.454+3	800.0-6	92.74-3	
	KEDAK-4	940240	290.4	261.7	7.982+3 *	3.348-3	112.4-3 *	
94-PU-241	TOTAL	JEF-1	4941	1.388+3	1.286+3	959.7	5.801	7.844
		ENDF/B-5	1381	1.387+3	1.284+3	973.9	5.356	8.150
		ENDL-82	1076	1.405+3	1.287+3 *	963.4	5.952	8.123 *
		JENDL-2	2945	1.388+3	1.286+3	959.7	5.801	7.844
		KEDAK-4	940241	1.386+3	1.273+3 *	945.0	5.511	7.852 *
	ELASTIC	JEF-1	4941	10.23	9.935	178.7	3.291	5.168
		ENDF/B-5	1381	11.01	10.74	180.4	2.629	4.631
		ENDL-82	1076	10.00	10.00	150.3	3.030	4.839 *
		JENDL-2	2945	10.23	9.935	178.7	3.291	5.168
		KEDAK-4	940241	9.863	9.721 *	163.9	2.805	4.625 *
INELAST.	JEF-1	4941			2.811 *	221.6-6	879.4-3 *	
	ENDF/B-5	1381			7.594 *	279.0-3	1.791 *	
	ENDL-82	1076			5.191 *	50.00-3	1.537 *	
	JENDL-2	2945			2.811 *	221.6-6	879.4-3 *	
	KEDAK-4	940241			5.461 *		1.484 *	
(N,2N)	JEF-1	4941			543.5-3 *	178.1-3	22.67-3 *	
	ENDF/B-5	1381			537.6-3 *	105.0-3	21.64-3 *	
	ENDL-82	1076			811.2-3 *	127.3-3	35.49-3 *	
	JENDL-2	2945			543.5-3 *	178.1-3	22.67-3 *	
	KEDAK-4	940241			642.3-3 *	85.29-3	26.81-3 *	
(N,3N)	JEF-1	4941			141.8-3 *	149.5-3	22.55-6 *	
	ENDF/B-5	1381			55.17-3 *	128.0-3	23.66-6 *	
	ENDL-82	1076			256.4-3 *	604.5-3	133.8-6 *	
	JENDL-2	2945			141.8-3 *	149.5-3	22.55-6 *	
	KEDAK-4	940241			67.60-3 *	400.0-3	57.32-6 *	
FISSION	JEF-1	4941	1.015+3	947.7	590.5	2.182	1.625	
	ENDF/B-5	1381	1.016+3	941.1	588.4	2.199	1.597	
	ENDL-82	1076	996.5	905.9	581.0	2.133	1.596 *	
	JENDL-2	2945	1.015+3	947.7	590.5	2.182	1.625	
	KEDAK-4	940241	1.012+3	931.2	582.3	2.220	1.639 *	
(N,4N)	JEF-1	4941			2.136-3 *		19.71-9 *	
	ENDL-82	1076			37.41-3 *		582.1-9 *	
	JENDL-2	2945			2.136-3 *		19.71-9 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
94-PU-241	CAPTURE	JEF-1	4941	363.0	327.9	187.0	7.722-9	149.0-3	
		ENDF/B-5	1381	361.4	332.5	196.9	15.80-3	109.0-3	
		ENDL-82	1076	398.6	371.0	225.8	7.143-3	115.8-3 *	
		JENDL-2	2945	363.0	327.9	187.0	7.722-9	149.0-3	
		KEDAK-4	940241	364.8	332.6	192.6	1.000-3	77.39-3 *	
94-PU-242	TOTAL	JEF-1	4942	26.89	24.95	1.483+3	5.918	7.857	
		ENDF/B-5	1342	26.90	24.85	1.668+3	6.033	7.943	
		ENDL-82	1077	30.13	28.36	1.820+3	5.477	7.929 *	
		JENDL-2	2946	26.65	24.74	1.479+3	5.918	7.851	
		KEDAK-4	940242	27.26	25.22	1.469+3 *	5.793	7.633 *	
	ELASTIC	JEF-1	4942	8.293	8.265	351.5	3.166	5.346	
		ENDF/B-5	1342	7.729	7.704	382.6	3.103	5.043	
		ENDL-82	1077	11.34	11.34	470.4	2.507	4.895 *	
		JENDL-2	2946	8.111	8.091	349.2	3.161	5.340	
		KEDAK-4	940242	8.256	8.225 *	333.5	3.190	5.066 *	
	INELAST.	JEF-1	4942			5.591 *	8.378-3	1.281 *	
		ENDF/B-5	1342			6.881 *	235.5-3	1.695 *	
		ENDL-82	1077			7.479 *	385.0-3	1.819 *	
		JENDL-2	2946			5.591 *	8.378-3	1.281 *	
		KEDAK-4	940242			5.973 *		1.369 *	
	(N,2N)	JEF-1	4942			513.1-3 *	454.1-3	6.669-3 *	
		ENDF/B-5	1342			480.9-3 *	417.2-3	6.403-3 *	
		ENDL-82	1077			474.8-3 *	300.0-3	7.364-3 *	
JENDL-2		2946			513.1-3 *	454.1-3	6.670-3 *		
KEDAK-4		940242			336.5-3 *	87.33-3	8.064-3 *		
(N,3N)	JEF-1	4942			217.6-3 *	303.1-3	44.58-6 *		
	ENDF/B-5	1342			180.2-3 *	302.1-3	37.23-6 *		
	ENDL-82	1077			169.4-3 *	350.0-3	72.25-6 *		
	JENDL-2	2946			217.6-3 *	303.1-3	44.58-6 *		
	KEDAK-4	940242			81.68-3 *	482.7-3	65.89-6 *		
FISSION	JEF-1	4942			14.54-3	12.99-3	6.303	1.991	
	ENDF/B-5	1342			1.043-3	924.3-6	5.568	1.126	
	ENDL-82	1077			884.5-6	793.5-6 *	39.95	1.123 *	
	JENDL-2	2946			121.2-3	107.9-3	6.350	1.135	
	KEDAK-4	940242			4.692-6 *	4.689 *	2.030	1.093 *	
(N,4N)	JEF-1	4942				12.19-3 *	116.6-9 *		
	ENDL-82	1077				9.549-3 *	97.01-9 *		
	JENDL-2	2946				12.19-3 *	116.6-9 *		
CAPTURE	JEF-1	4942				1.118+3	800.0-6	87.80-3	
	ENDF/B-5	1342				1.273+3	1.600-3	72.10-3	
	ENDL-82	1077				1.302+3	1.714-3	83.48-3 *	
	JENDL-2	2946				1.117+3	800.0-6	87.75-3	
	KEDAK-4	940242				1.125+3 *	3.000-3	97.46-3 *	
94-PU-243	TOTAL	JEF-1	4943	290.1	257.3	1.034+3	5.682	7.842	
		ENDF/B-5	8443	290.1	257.3	1.033+3	5.682	7.831	
		ENDL-82	1078	459.9	412.0	1.010+3	5.682	7.822 *	
	ELASTIC	JEF-1	4943	19.79	19.62	190.6	2.605	4.599	
		ENDF/B-5	8443	19.75	19.56	190.2	2.580	4.598	
		ENDL-82	1078	11.34	11.39	210.0	2.580	4.598 *	
	INELAST.	JEF-1	4943			6.982 *	100.0-3	2.061 *	
		ENDF/B-5	8443			6.982 *	100.0-3	2.061 *	
		ENDL-82	1078			6.959 *	100.0-3	2.053 *	
	(N,2N)	JEF-1	4943			1.129 *	225.0-3	53.77-3 *	
		ENDF/B-5	8443			1.129 *	225.0-3	53.77-3 *	
		ENDL-82	1078			1.127 *	225.0-3	53.63-3 *	
	(N,3N)	JEF-1	4943			360.6-3 *	875.0-3	278.3-6 *	
		ENDF/B-5	8443			360.6-3 *	875.0-3	278.3-6 *	
		ENDL-82	1078			365.8-3 *	875.0-3	278.9-6 *	
	FISSION	JEF-1	4943			182.0	160.0	559.2	1.900
		ENDF/B-5	8443			182.0	160.0	559.0	1.900
		ENDL-82	1078			180.4	161.2	512.9	1.900
(N,4N)	JEF-1	4943				89.49-3 *	2.403-6 *		
	ENDF/B-5	8443				89.49-3 *	2.403-6 *		
	ENDL-82	1078				89.49-3 *	2.403-6 *		
CAPTURE	JEF-1	4943				88.39	77.71	275.0	
	ENDF/B-5	8443				88.39	77.71	274.9	
	ENDL-82	1078				268.1	239.4	278.1	
94-PU-244	TOTAL	JEF-1	4944	11.47	11.26	340.0	5.442	7.808	
		ENDF/B-5	8444	11.47	11.26	339.9	5.442	7.808	
	ELASTIC	JEF-1	4944	9.635	9.632	221.2	3.076	4.844	
		ENDF/B-5	8444	9.635	9.632	221.2	3.076	4.844	
	INELAST.	JEF-1	4944			7.405 *	19.74-3	1.922 *	
		ENDF/B-5	8444			7.405 *	19.74-3	1.922 *	
	(N,2N)	JEF-1	4944			851.2-3 *	269.3-3	21.29-3 *	
		ENDF/B-5	8444			851.2-3 *	269.3-3	21.29-3 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.	
94-PU-244	(N,3N)	JEF-1	4944			178.4-3 *	380.0-3	100.2-6 *	
		ENDF/B-5	8444			178.4-3 *	380.0-3	100.2-6 *	
	FISSION	JEF-1	4944	59.40-9	118.8-9	4.726	1.695	1.003	
		ENDF/B-5	8444			4.726	1.695	1.003	
(N,4N)	JEF-1	4944			10.76-3 *		141.4-9 *		
	ENDF/B-5	8444			10.76-3 *		141.4-9 *		
CAPTURE	JEF-1	4944	1.835	1.623	105.6	2.800-3	17.15-3		
	ENDF/B-5	8444	1.835	1.623	105.6	2.800-3	17.15-3		
95-AM-241	TOTAL	JEF-1	4951	625.1	564.3	1.646+3	5.789	7.652	
		ENDF/B-5	1361	589.8	549.7	1.630+3	5.972	7.985	
		ENDL-82	1079	600.5	536.9	1.873+3	5.553	7.626 *	
		JENDL-2	2951	614.7	547.6	1.497+3	5.742	7.780	
		KEDAK-4	950241	625.1	561.4	1.648+3 *	5.704	7.745 *	
	ELASTIC	JEF-1	4951	12.02	11.58	174.7	2.873	4.730	
		ENDF/B-5	1361	10.05	9.729	186.9	3.073	4.747	
		ENDL-82	1079	13.30	13.25	177.3	2.550	4.741 *	
		JENDL-2	2951	11.26	10.83	177.6	2.722	4.789	
		KEDAK-4	950241	12.03	11.58	172.7	2.928	4.351 *	
	INELAST.	JEF-1	4951			5.095 *	238.0-3	1.268 *	
		ENDF/B-5	1361			5.605 *	2.000-3	1.511 *	
		ENDL-82	1079			4.312 *	100.0-3	1.201 *	
		JENDL-2	2951			4.834 *	42.21-6	1.180 *	
		KEDAK-4	950241			6.525 *	47.11-3	1.777 *	
	(N,2N)	JEF-1	4951			204.6-3 *	270.7-3	1.818-3 *	
		ENDF/B-5	1361			128.7-3 *	133.0-3	1.200-3 *	
		ENDL-82	1079			277.1-3 *	116.7-3	12.42-3 *	
		JENDL-2	2951			139.2-3 *	262.4-3	620.3-6 *	
		KEDAK-4	950241			112.9-3 *	133.0-3	1.199-3 *	
	(N,3N)	JEF-1	4951			28.95-3 *	11.18-3	2.234-6 *	
		ENDF/B-5	1361			48.89-3 *	84.00-3	10.51-6 *	
		ENDL-82	1079			62.52-3 *	100.0-3	14.05-6 *	
		JENDL-2	2951			138.4-3 *	46.74-3	10.02-6 *	
		KEDAK-4	950241			12.14-3 *	84.00-3	7.436-6 *	
	FISSION	JEF-1	4951	3.150	2.915	16.07	2.391	1.342	
		ENDF/B-5	1361	3.274	2.890	13.43	2.650	1.466	
		ENDL-82	1079	3.282	2.984 *	16.62	2.686	1.491 *	
		JENDL-2	2951	3.018	2.721	14.70	2.711	1.510	
		KEDAK-4	950241	3.150	2.901 *	15.71	2.501	1.393 *	
	(N,4N)	JENDL-2	2951			2.766-9 *			
	CAPTURE	JEF-1	4951	609.9	549.8	1.449+3	5.088-3	309.8-3	
		ENDF/B-5	1361	576.5	537.1	1.424+3	26.00-3	258.5-3	
		ENDL-82	1079	583.9	520.6	1.674+3	600.0-6	179.5-3 *	
		JENDL-2	2951	600.4	534.1	1.299+3		298.0-3	
		KEDAK-4	950241	609.9	547.0	1.452+3 *	5.604-6	219.7-3 *	
	95-AM-242	TOTAL	JEF-1	4952	7.611+3	6.747+3	1.826+3	5.906	7.758
			JEF-1	4953	8.250+3	8.079+3	2.080+3	5.670	7.765
			ENDF/B-5	8542	2.562+3	2.248+3	897.5	10.20	10.20
			JENDL-2	2952	7.611+3	6.747+3	1.826+3	5.906	7.758
			KEDAK-4	950242	8.250+3	8.049+3 *	2.078+3 *	5.913	7.761
		ELASTIC	JEF-1	4952	11.44	11.44	171.0	2.807	4.562
			JEF-1	4953	9.999	10.58	167.2	1.908	4.506
			ENDF/B-5	8542	28.95	28.64	202.9	10.20	10.20
			JENDL-2	2952	11.44	11.44	171.0	2.807	4.562
			KEDAK-4	950242	9.999	10.58	166.4	2.807	4.528
		INELAST.	JEF-1	4952			4.372 *	402.3-3	1.229 *
			JEF-1	4953			5.359 *	747.5-3	1.333 *
			JENDL-2	2952			4.372 *	402.3-3	1.229 *
			JENDL-2	2953			4.599	442.3-3	1.256
			KEDAK-4	950242			5.199 *	747.5-3	1.333 *
		(N,2N)	JEF-1	4952			194.2-3 *	130.8-3	4.387-3 *
			JEF-1	4953			476.3-3 *	194.0-3	12.01-3 *
			JENDL-2	2952			194.2-3 *	130.8-3	4.387-3 *
			JENDL-2	2953			194.2-3 *	130.8-3	4.387-3 *
			KEDAK-4	950242			474.8-3 *	194.0-3	12.01-3 *
		(N,3N)	JEF-1	4952			91.47-3 *	139.0-3	17.94-6 *
			JEF-1	4953			193.1-3 *	350.0-3	46.51-6 *
			JENDL-2	2952			91.47-3 *	139.0-3	17.94-6 *
			JENDL-2	2953			91.47-3 *	139.0-3	17.94-6 *
			KEDAK-4	950242			51.85-3 *	350.0-3	36.73-6 *
		FISSION	JEF-1	4952	2.100+3	1.861+3	1.259+3	2.427	1.757
			JEF-1	4953	6.840+3	6.695+3	1.631+3	2.470	1.836
			ENDF/B-5	8542	2.280+3	1.997+3	622.4		1.950-3
			JENDL-2	2952	2.100+3	1.861+3	1.259+3	2.427	1.757
			KEDAK-4	950242	6.820+3	6.480+3	1.528+3	2.395	1.866
					6.840+3	6.670+3 *	1.630+3 *	2.470	1.836 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
95-AM-242	CAPTURE	JEF-1	4952	5.500+3	4.873+3	390.8	4.487-6	206.6-3	
		JEF-1	4953	1.400+3	1.373+3	279.7	37.04-6	77.82-3	
		ENDF/B-5	8542	253.3	221.9	72.14		279.9-6	
		JENDL-2	2952	5.500+3	4.873+3	390.8	4.487-6	206.6-3	
		JENDL-2	2953	1.342+3	1.321+3	206.9	723.1-9	106.4-3	
		KEDAK-4	950242	1.400+3	1.368+3 *	279.7	37.04-6	77.82-3 *	
95-AM-243	TOTAL	JEF-1	4954	83.69	75.06	2.033+3	5.381	7.689	
		ENDF/B-5	1363	81.74	74.07	2.035+3	5.839	7.942	
		ENDL-82	1081	86.86	79.78	2.145+3	5.632	7.685 *	
		JENDL-2	2954	86.26	78.37	2.044+3	5.759	7.855	
		JENDL-2	2954	80.41	71.71	2.040+3 *	5.726	7.774 *	
	ELASTIC	JEF-1	4954	7.114	7.071	204.4	2.839	4.996	
		ENDF/B-5	1363	6.965	6.912	202.9	3.192	4.771	
		ENDL-82	1081	11.34	11.36	305.8	2.580	4.602 *	
		JENDL-2	2954	7.528	7.476	207.0	2.728	4.799	
		JENDL-2	2954	5.661	5.616 *	176.3	1.433	4.679 *	
	INELAST.	JEF-1	4954			5.543 *		1.328 *	
		ENDF/B-5	1363			7.783 *	2.000-3	1.902 *	
		ENDL-82	1081			6.316 *	75.00-3	1.905 *	
		JENDL-2	2954			6.762 *	42.36-6	1.678 *	
		JENDL-2	2954			8.726 *	1.611	1.722 *	
	(N,2N)	JEF-1	4954			367.5-3 *	370.0-3	5.065-3 *	
		ENDF/B-5	1363			75.65-3 *	40.00-3	783.4-6 *	
		ENDL-82	1081			812.1-3 *	125.0-3	18.44-3 *	
		JENDL-2	2954			338.1-3 *	360.5-3	3.729-3 *	
		JENDL-2	2954			71.53-3 *	82.59-3	788.4-6 *	
	(N,3N)	JEF-1	4954			76.82-3 *	110.0-3	13.37-6 *	
		ENDF/B-5	1363			15.38-3 *	100.0-3	6.255-6 *	
		ENDL-82	1081			301.2-3 *	650.0-3	135.9-6 *	
		JENDL-2	2954			228.6-3 *	221.1-3	33.15-6 *	
		JENDL-2	2954			10.90-3 *	100.0-3	6.187-6 *	
	FISSION	JEF-1	4954	49.94-3	44.30-3	6.522	2.050	1.116	
		ENDF/B-5	1363			6.151	2.500	1.193	
		ENDL-82	1081	893.9-3	864.4-3 *	9.018	2.200	1.118 *	
		JENDL-2	2954	228.1-3	205.3-3	11.37	2.450	1.275	
		JENDL-2	2954	3.011-3	3.022-3 *	5.694 *	2.500	1.245 *	
	(N,4N)	ENDL-82	1081			16.14-3 *		162.9-9 *	
		JENDL-2	2954			267.4-6 *		2.067-9 *	
	CAPTURE	JEF-1	4954	76.53	67.94	1.815+3	10.00-3	241.7-3	
		ENDF/B-5	1363	74.77	67.16	1.818+3	5.000-3	74.96-3	
		ENDL-82	1081	74.62	67.56	1.822+3	1.600-3	42.61-3 *	
		JENDL-2	2954	78.50	70.68	1.818+3		194.7-3	
		JENDL-2	2954	74.74	66.09	1.848+3 *	6.423-6	127.9-3 *	
	96-CM-241	TOTAL	JEF-1	4961	2.862+3	2.542+3	1.464+3	6.007	7.469
			ENDF/B-5	8641	2.863+3	2.543+3	1.463+3	6.010	7.469
		ELASTIC	JEF-1	4961	12.08	12.08	167.4	3.159	4.389
			ENDF/B-5	8641	12.08	12.08	167.4	3.159	4.389
		INELAST.	JEF-1	4961			1.768 *		370.4-3 *
			ENDF/B-5	8641			1.768 *		370.4-3 *
		(N,2N)	JEF-1	4961			15.36-3 *	8.000-3	448.7-6 *
			ENDF/B-5	8641			15.36-3 *	8.000-3	448.7-6 *
(N,3N)		JEF-1	4961			1.709-3 *	2.000-3	226.0-9 *	
		ENDF/B-5	8641			1.709-3 *	2.000-3	226.0-9 *	
FISSION		JEF-1	4961	2.599+3	2.304+3	1.179+3	2.838	2.686	
		ENDF/B-5	8641	2.600+3	2.305+3	1.179+3	2.838	2.686	
CAPTURE		JEF-1	4961	250.3	221.8	112.4		22.61-3	
		ENDF/B-5	8641	250.4	221.9	112.3		22.61-3	
96-CM-242		TOTAL	JEF-1	4962	31.60	29.25	350.9	6.147	8.075
			ENDF/B-5	8642	30.84	28.39	366.0	5.997	7.418
			ENDL-82	1082	32.35	32.46	638.4	5.712	7.736 *
			JENDL-2	2961	32.53	30.11	350.7	5.750	7.819
		ELASTIC	JEF-1	4962	10.09	10.08	200.4	2.755	4.574
			ENDF/B-5	8642	10.61	10.59	197.3	3.364	4.741
			ENDL-82	1082	11.34	11.35	430.9	2.577	4.562 *
			JENDL-2	2961	11.61	11.60	218.6	2.725	4.955
		INELAST.	JEF-1	4962			7.406 *	382.5-3	1.801 *
			ENDF/B-5	8642			6.145 *		1.645 *
			ENDL-82	1082			5.923 *	50.00-3	1.635 *
	JENDL-2		2961			4.432 *	318.1-6	975.7-3 *	
	(N,2N)	JEF-1	4962			244.9-3 *	335.1-3	1.069-3 *	
		ENDF/B-5	8642			14.39-3 *	10.00-3	182.2-6 *	
		ENDL-82	1082			613.1-3 *	100.0-3	10.17-3 *	
		JENDL-2	2961			177.5-3 *	111.6-3	1.753-3 *	
	(N,3N)	ENDF/B-5	8642			1.745-3 *	2.000-3	256.1-9 *	
		JENDL-2	2961			66.77-3 *	6.359-3	4.377-6 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.	
96-CM-242	FISSION	JEF-1	4962	4.972	4.602	12.42	2.672	1.662	
		ENDF/B-5	8642	3.026	2.660	6.264	2.615	1.006	
		ENDL-82	1082	5.010	4.435 *	36.37	2.650	1.432 *	
		JENDL-2	2961	5.000	4.448	11.09	2.907	1.799	
	CAPTURE	JEF-1	4962	16.54	14.55	130.5	38.49-6	32.19-3	
		ENDF/B-5	8642	17.21	15.14	156.3	2.000-3	24.85-3	
		ENDL-82	1082	16.00	16.66	164.4	1.563-3	98.06-3 *	
		JENDL-2	2961	15.92	14.07	116.2	3.061-9	87.00-3	
96-CM-243	TOTAL	JEF-1	4963	365.8	324.6	2.333+3	6.206	7.970	
		ENDF/B-5	1343	756.2	674.4	2.385+3	5.948	8.228	
		ENDL-82	1083	1.093+3	963.4	1.117+3	5.677	8.277 *	
		JENDL-2	2962	753.3	670.1	2.334+3	5.917	7.779	
	ELASTIC	JEF-1	4963	6.763	6.685	149.6	2.901	4.407	
		ENDF/B-5	1343	6.658	6.615	176.3	3.057	4.439	
		ENDL-82	1083	11.34	11.39	210.0	2.580	4.598 *	
		JENDL-2	2962	9.658	9.571	173.9	2.809	4.562	
	INELAST.	JEF-1	4963			4.785 *	266.1-3	1.369 *	
		ENDF/B-5	1343			7.875 *	206.0-3	1.682 *	
		ENDL-82	1083			7.604 *	250.0-3	1.618 *	
		JENDL-2	2962			2.848 *	26.47-3	787.0-3 *	
	(N,2N)	JEF-1	4963			277.9-3 *	286.6-3	3.733-3 *	
		ENDF/B-5	1343			325.8-3 *	70.00-3	11.60-3 *	
		ENDL-82	1083			708.8-3 *	250.0-3	20.19-3 *	
		JENDL-2	2962			748.6-3 *	472.5-3	15.37-3 *	
	(N,3N)	JENDL-2	2962			220.9-3 *	73.62-3	17.68-6 *	
	FISSION	JEF-1	4963	225.2	201.8	1.750+3	2.751	2.170	
		ENDF/B-5	1343	691.5	616.1	1.952+3	2.513	2.080	
		ENDL-82	1083	690.8	612.1	777.2	2.170	2.000 *	
		JENDL-2	2962	612.3	545.6	1.752+3	2.536	2.380	
	(N,4N)	JENDL-2	2962			161.9-6 *		1.250-9 *	
	CAPTURE	JEF-1	4963	133.9	116.1	428.6	69.40-6	17.71-3	
		ENDF/B-5	1343	58.03	51.66	248.4	2.000-3	15.21-3	
		ENDL-82	1083	391.1	339.9	121.4	2.088-3	42.10-3 *	
		JENDL-2	2962	131.3	115.0	404.5	17.23-9	34.36-3	
	96-CM-244	TOTAL	JEF-1	4964	23.00	21.34	1.018+3	6.240	7.990
			ENDF/B-5	1344	17.95	16.68	965.3	6.694	7.534
ENDL-82			1084	23.42	22.16	1.084+3	5.712	7.681 *	
JENDL-2			2963	22.24	20.51	963.7	6.026	7.626	
KEDAK-4			960244	23.00	21.26	1.016+3 *	6.240	7.990 *	
ELASTIC		JEF-1	4964	7.570	7.558	356.0	2.870	5.270	
		ENDF/B-5	1344	6.982	6.972	348.5	3.076	4.804	
		ENDL-82	1084	11.34	11.36	430.9	2.577	4.562 *	
		JENDL-2	2963	6.650	6.641	347.8	3.273	5.117	
		KEDAK-4	960244	7.571	7.559 *	355.1	2.870	5.269 *	
INELAST.		JEF-1	4964			4.215 *	5.000-3	994.0-3 *	
		ENDF/B-5	1344			4.105 *		997.1-3 *	
		ENDL-82	1084			6.011 *	50.00-3	1.669 *	
		JENDL-2	2963			3.752 *	17.51-3	832.1-3 *	
		KEDAK-4	960244			4.217 *	5.000-3	994.0-3 *	
(N,2N)		JEF-1	4964			385.8-3 *	302.0-3	4.588-3 *	
		ENDF/B-5	1344			304.7-3 *	65.00-3	3.784-3 *	
		ENDL-82	1084			607.5-3 *	100.0-3	10.51-3 *	
		JENDL-2	2963			56.00-3 *	60.34-3	576.5-6 *	
		KEDAK-4	960244			372.6-3 *	302.0-3	4.586-3 *	
(N,3N)		JEF-1	4964			30.65-3 *	72.00-3	6.716-6 *	
		ENDF/B-5	1344			196.8-3 *	470.0-3	52.55-6 *	
		ENDL-82	1084			130.9-3 *	333.3-3	44.26-6 *	
		JENDL-2	2963			31.03-3 *	39.29-3	4.777-6 *	
		KEDAK-4	960244			8.790-3 *	72.00-3	5.022-6 *	
FISSION		JEF-1	4964	1.030	914.4-3	19.97	2.990	1.624	
		ENDF/B-5	1344	603.7-3	529.0-3	18.70	3.080	1.608	
		ENDL-82	1084	1.102	976.3-3 *	35.08	2.650	1.397 *	
		JENDL-2	2963	1.180	1.049	18.39	2.636	1.554	
		KEDAK-4	960244	1.030	909.8-3 *	19.05	2.990	1.624 *	
CAPTURE		JEF-1	4964	14.40	12.85	637.3	1.000-3	98.60-3	
		ENDF/B-5	1344	10.37	9.182	593.6	3.000-3	122.1-3	
	ENDL-82	1084	10.98	9.831 *	610.8	1.600-3	43.07-3 *		
	JENDL-2	2963	14.41	12.82	593.7	271.5-9	122.2-3		
	KEDAK-4	960244	14.40	12.79	637.3	1.000-3	98.60-3 *		
96-CM-245	TOTAL	JEF-1	4965	1.325+3	1.070+3	1.077+3	6.191	8.120	
		ENDF/B-5	1345	2.570+3	2.171+3	1.106+3	6.667	8.086	
		ENDL-82	1085	2.432+3	2.074+3 *	1.146+3	6.047	7.982 *	
		JENDL-2	2964	2.359+3	1.980+3	1.085+3	6.060	7.646	
	ELASTIC	JEF-1	4965	11.48	11.19	167.4	2.918	4.654	
		ENDF/B-5	1345	8.894	8.882	152.1	2.570	4.666	
	ENDL-82	1085	20.08	20.06	184.4	2.570	4.668 *		
	JENDL-2	2964	11.59	11.60	173.5	3.295	4.818		

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.	
96-CM-245	INELAST.	JEF-1	4965			5.166 *	235.7-3	1.425 *	
		ENDF/B-5	1345			6.975 *	250.0-3	1.528 *	
		ENDL-82	1085			6.975 *	250.0-3	1.528 *	
		JENDL-2	2964			3.563 *	220.3-3	890.9-3 *	
	(N,2N)	JEF-1	4965			448.2-3 *	572.7-3	4.113-3 *	
		ENDF/B-5	1345			708.3-3 *	250.0-3	20.82-3 *	
		ENDL-82	1085			708.3-3 *	250.0-3	20.81-3 *	
		JENDL-2	2964			177.4-3 *	176.8-3	3.080-3 *	
	(N,3N)	JENDL-2	2964			65.64-3 *	70.66-3	9.299-6 *	
	FISSION	JEF-1	4965		565.7	446.6	721.1	2.464	1.983
		ENDF/B-5	1345		2.219+3	1.875+3	837.0	2.170	1.829
		ENDL-82	1085		2.020+3	1.714+3 *	832.7	2.550	1.723 *
		JENDL-2	2964		2.001+3	1.680+3	799.7	2.297	1.887
	CAPTURE	JEF-1	4965		747.6	611.8	183.1	411.7-6	47.82-3
		ENDF/B-5	1345		342.1	287.3	108.6	2.088-3	41.38-3
		ENDL-82	1085		391.1	339.9	121.4	2.088-3	42.10-3 *
		JENDL-2	2964		346.4	288.4	107.9	444.4-9	45.17-3
	96-CM-246	TOTAL	JEF-1	4966	11.05	10.90	316.5	5.604	7.777
			ENDF/B-5	1346	11.05	10.90	316.3	5.604	7.776
			ENDL-82	1086	12.71	12.60	417.5	5.612	7.643 *
KEDAK-4			960246			142.2	6.249	8.032 *	
ELASTIC		JEF-1	4966		9.685	9.683	195.3	2.609	4.999
		ENDF/B-5	1346		9.685	9.683	195.3	2.609	4.996
		ENDL-82	1086		11.34	11.39	263.6	2.586	4.527 *
		KEDAK-4	960246			120.5	2.879	5.440 *	
INELAST.		JEF-1	4966			5.959 *	49.96-3	1.351 *	
		ENDF/B-5	1346			5.959 *	49.96-3	1.351 *	
		ENDL-82	1086			6.122 *	50.00-3	1.713 *	
		KEDAK-4	960246			4.945 *	6.000-3	1.162 *	
(N,2N)		JEF-1	4966			455.6-3 *	35.09-3	4.968-3 *	
		ENDF/B-5	1346			455.6-3 *	35.09-3	4.971-3 *	
		ENDL-82	1086			781.5-3 *	175.0-3	16.93-3 *	
		KEDAK-4	960246			512.4-3 *	422.0-3	7.387-3 *	
(N,3N)		JEF-1	4966			350.7-3 *	803.2-3	144.1-6 *	
		ENDF/B-5	1346			350.7-3 *	803.2-3	144.1-6 *	
		ENDL-82	1086			333.8-3 *	700.0-3	136.1-6 *	
		KEDAK-4	960246			23.12-3 *	159.0-3	14.42-6 *	
FISSION		JEF-1	4966		63.50-3	56.53-3	10.42	2.100	1.379
		ENDF/B-5	1346		63.22-3	56.35-3	10.42	2.100	1.379
		ENDL-82	1086		170.3-3	150.9-3 *	7.649	2.100	1.343 *
		KEDAK-4	960246			5.992 *	2.772	1.366 *	
(N,4N)	JEF-1	4966			10.64-3 *		90.51-9 *		
	ENDL-82	1086			10.64-3 *		90.51-9 *		
CAPTURE	JEF-1	4966		1.303	1.160	103.9	1.600-3	43.28-3	
	ENDF/B-5	1346		1.298	1.156	103.8	1.600-3	43.07-3	
	ENDL-82	1086		1.201	1.065 *	139.0	1.600-3	42.60-3 *	
	KEDAK-4	960246			10.23	1.000-3	56.81-3 *		
96-CM-247	TOTAL	JEF-1	4967	150.4	137.7	1.411+3	5.741	7.934	
		ENDF/B-5	8647	150.4	137.7	1.411+3	5.741	7.935	
		ENDL-82	1087	184.0	165.2	1.505+3	5.741	7.936 *	
	ELASTIC	JEF-1	4967		8.404	8.359	161.7	2.590	4.559
		ENDF/B-5	8647		8.404	8.359	161.7	2.590	4.559
		ENDL-82	1087		11.34	11.61	216.8	2.590	4.559 *
	INELAST.	JEF-1	4967			4.156 *	50.00-3	1.237 *	
		ENDF/B-5	8647			4.156 *	50.00-3	1.237 *	
		ENDL-82	1087			4.156 *	50.00-3	1.237 *	
	(N,2N)	JEF-1	4967			707.4-3 *	100.0-3	32.36-3 *	
		ENDF/B-5	8647			707.4-3 *	100.0-3	32.36-3 *	
		ENDL-82	1087			707.4-3 *	100.0-3	32.36-3 *	
	(N,3N)	JEF-1	4967			220.7-3 *	500.0-3	126.6-6 *	
		ENDF/B-5	8647			220.7-3 *	500.0-3	126.6-6 *	
		ENDL-82	1087			220.7-3 *	500.0-3	126.6-6 *	
	FISSION	JEF-1	4967		83.67	76.28	751.7	2.500	2.065
		ENDF/B-5	8647		83.67	76.28	751.7	2.500	2.065
		ENDL-82	1087		82.53	73.76	918.8	2.500	2.065 *
	(N,4N)	JEF-1	4967			40.64-3 *		774.9-9 *	
		ENDF/B-5	8647			40.64-3 *		774.9-9 *	
		ENDL-82	1087			40.64-3 *		774.9-9 *	
	CAPTURE	JEF-1	4967		58.33	53.04	492.5	800.0-6	41.60-3
		ENDF/B-5	8647		58.33	53.04	492.5	800.0-6	41.60-3
		ENDL-82	1087		90.09	79.88	364.0	800.0-6	41.97-3 *
96-CM-248	TOTAL	JEF-1	4968	8.676	8.390	620.5	5.580	7.897	
		ENDF/B-5	8648	8.676	8.390	620.5	5.580	7.896	
		ENDL-82	1088	14.71	14.37	783.1	5.743	7.654 *	
		KEDAK-4	960248			102.1	5.843	8.061 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.	
96-CM-248	ELASTIC	JEF-1	4968	6.137	6.134	349.4	3.092	4.989	
		ENDF/B-5	8648	6.137	6.134	349.4	3.092	4.989	
		ENDL-82	1088	11.34	11.36	478.0	2.592	4.537 *	
		KEDAK-4	960248			88.14	2.889	5.505 *	
	INELAST.	JEF-1	4968			6.185 *		1.466 *	
		ENDF/B-5	8648			6.185 *		1.466 *	
		ENDL-82	1088			5.521 *	100.0-3	1.680 *	
		KEDAK-4	960248			5.290 *	8.000-3	1.245 *	
	(N, 2N)	JEF-1	4968			469.1-3 *	230.0-3	6.450-3 *	
		ENDF/B-5	8648			469.1-3 *	230.0-3	6.450-3 *	
		ENDL-82	1088			782.9-3 *	150.0-3	18.60-3 *	
		KEDAK-4	960248			526.1-3 *	478.0-3	8.272-3 *	
	(N, 3N)	JEF-1	4968			369.7-3 *	750.0-3	155.2-6 *	
		ENDF/B-5	8648			369.7-3 *	750.0-3	155.2-6 *	
		ENDL-82	1088			390.8-3 *	800.0-3	266.3-6 *	
		KEDAK-4	960248			61.12-3 *	386.0-3	44.22-6 *	
	FISSION	JEF-1	4968		87.61-3	77.83-3	15.43	2.499	1.387
		ENDF/B-5	8648		87.61-3	77.83-3	15.43	2.499	1.387
		ENDL-82	1088		340.7-3	301.7-3 *	15.56	2.100	1.342 *
		KEDAK-4	960248			5.325 *	2.081	1.247 *	
	(N, 4N)	JEF-1	4968			32.79-3 *		364.3-9 *	
		ENDF/B-5	8648			32.79-3 *		364.3-9 *	
		ENDL-82	1088			34.69-3 *		471.4-9 *	
	CAPTURE	JEF-1	4968		2.452	2.178	248.6	9.600-3	47.65-3
ENDF/B-5		8648		2.452	2.178	248.6	9.600-3	47.64-3	
ENDL-82		1088		3.034	2.715 *	282.8	1.000-3	76.95-3 *	
KEDAK-4		960248			2.795 *	1.000-3	54.09-3 *		
97-BK-249	TOTAL	JEF-1	4979	1.593+3	1.412+3	4.442+3	5.754	7.650	
		ENDF/B-5	8749	1.593+3	1.412+3	4.442+3	5.754	7.650	
		ENDL-82	1089	1.616+3	1.453+3 *	4.277+3	5.749	7.645 *	
	ELASTIC	JEF-1	4979		8.903	8.799	343.9	2.592	4.539
		ENDF/B-5	8749		8.903	8.799	343.9	2.592	4.539
		ENDL-82	1089		11.34	19.18	325.5	2.592	4.537 *
	INELAST.	JEF-1	4979			7.366 *	100.0-3	2.129 *	
		ENDF/B-5	8749			7.366 *	100.0-3	2.129 *	
		ENDL-82	1089			7.366 *	100.0-3	2.129 *	
	(N, 2N)	JEF-1	4979			1.044 *	300.0-3	21.07-3 *	
		ENDF/B-5	8749			1.044 *	300.0-3	21.07-3 *	
		ENDL-82	1089			1.044 *	300.0-3	21.07-3 *	
	(N, 3N)	JEF-1	4979			482.0-3 *	1.100	198.5-6 *	
		ENDF/B-5	8749			482.0-3 *	1.100	198.5-6 *	
		ENDL-82	1089			482.0-3 *	1.100	198.5-6 *	
	FISSION	JEF-1	4979			4.209	1.656	881.1-3	
		ENDF/B-5	8749			4.209	1.656	881.1-3	
		ENDL-82	1089		1.002	887.4-3 *	4.900	881.2-3 *	
	(N, 4N)	JEF-1	4979			54.70-3 *		700.3-9 *	
		ENDF/B-5	8749			54.70-3 *		700.3-9 *	
		ENDL-82	1089			54.70-3 *		700.3-9 *	
	CAPTURE	JEF-1	4979		1.584+3	1.403+3	4.085+3	1.000-3	78.30-3
		ENDF/B-5	8749		1.584+3	1.403+3	4.085+3	1.000-3	78.30-3
		ENDL-82	1089		1.604+3	1.433+3 *	3.938+3	1.000-3	77.01-3 *
98-CF-249	TOTAL	JEF-1	4989	2.161+3	1.862+3	3.099+3	5.793	7.877	
		ENDF/B-5	8849	2.161+3	1.862+3	3.099+3	5.793	7.877	
		ENDL-82	1090	2.159+3	1.882+3 *	2.734+3	5.793	7.878 *	
	ELASTIC	JEF-1	4989		8.449	8.170	171.1	2.592	4.536
		ENDF/B-5	8849		8.449	8.170	171.1	2.592	4.536
		ENDL-82	1090		11.54	11.93	239.3	2.592	4.538 *
	INELAST.	JEF-1	4989			4.994 *	50.00-3	1.523 *	
		ENDF/B-5	8849			4.994 *	50.00-3	1.523 *	
		ENDL-82	1090			4.994 *	50.00-3	1.523 *	
	(N, 2N)	JEF-1	4989			757.7-3 *	185.0-3	22.20-3 *	
		ENDF/B-5	8849			757.7-3 *	185.0-3	22.20-3 *	
		ENDL-82	1090			757.7-3 *	185.0-3	22.20-3 *	
	(N, 3N)	JEF-1	4989			249.9-3 *	565.0-3	131.5-6 *	
		ENDF/B-5	8849			249.9-3 *	565.0-3	131.5-6 *	
		ENDL-82	1090			249.9-3 *	565.0-3	131.5-6 *	
	FISSION	JEF-1	4989		1.670+3	1.435+3	2.109+3	2.400	1.718
		ENDF/B-5	8849		1.670+3	1.435+3	2.109+3	2.400	1.718
		ENDL-82	1090		1.669+3	1.446+3 *	2.222+3	2.400	1.718 *
	(N, 4N)	JEF-1	4989			11.14-3 *		104.2-9 *	
		ENDF/B-5	8849			11.14-3 *		104.2-9 *	
		ENDL-82	1090			11.14-3 *		104.2-9 *	

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES INTEG.	14-MEV	FISS.AVG.
98-CF-249	CAPTURE	JEF-1	4989	482.7	418.9	813.2	1.000-3	76.99-3
		ENDF/B-5	8849	482.7	418.9	813.2	1.000-3	76.99-3
		ENDL-82	1090	478.4	424.3	266.8	1.000-3	76.99-3 *
98-CF-250	TOTAL	JEF-1	4980	1.620+3	1.459+3	11.92+3	5.887	8.041
		ENDF/B-5	8850	1.620+3	1.459+3	11.92+3	5.887	8.041
		ENDL-82	1091	2.015+3	1.512+3 *	15.69+3	5.893	8.041 *
	ELASTIC	JEF-1	4980	8.896	8.710	663.4	2.592	4.537
		ENDF/B-5	8850	8.896	8.710	663.4	2.592	4.537
		ENDL-82	1091	11.54	11.54	1.055+3	2.592	4.538 *
	INELAST.	JEF-1	4980			5.143 *	50.00-3	1.440 *
		ENDF/B-5	8850			5.143 *	50.00-3	1.440 *
		ENDL-82	1091			5.143 *	50.00-3	1.440 *
(N,2N)		JEF-1	4980			600.4-3 *	200.0-3	10.99-3 *
		ENDF/B-5	8850			600.4-3 *	200.0-3	10.99-3 *
		ENDL-82	1091			600.4-3 *	200.0-3	10.99-3 *
(N,3N)		JEF-1	4980			232.6-3 *	550.0-3	91.17-6 *
		ENDF/B-5	8850			232.6-3 *	550.0-3	91.17-6 *
		ENDL-82	1091			232.6-3 *	550.0-3	91.17-6 *
FISSION		JEF-1	4980			10.79	2.500	1.975
		ENDF/B-5	8850			10.79	2.500	1.975
		ENDL-82	1091	100.0-3	100.0-3 *	11.69	2.500	1.975 *
(N,4N)		JEF-1	4980			12.19-3 *		118.5-9 *
		ENDF/B-5	8850			12.19-3 *		118.5-9 *
		ENDL-82	1091			12.19-3 *		118.5-9 *
CAPTURE		JEF-1	4980	1.612+3	1.449+3	11.24+3	1.000-3	77.05-3
		ENDF/B-5	8850	1.612+3	1.449+3	11.24+3	1.000-3	77.05-3
		ENDL-82	1091	2.003+3	1.501+3 *	14.61+3	1.000-3	77.05-3 *
98-CF-251	TOTAL	JEF-1	4981	8.198+3	7.242+3	6.860+3	5.764	7.881
		ENDF/B-5	8851	8.198+3	7.242+3	6.860+3	5.764	7.881
		ENDL-82	1092	6.427+3	5.697+3 *	4.605+3	5.764	7.882 *
	ELASTIC	JEF-1	4981	8.839	8.768	262.6	2.592	4.537
		ENDF/B-5	8851	8.839	8.768	262.6	2.592	4.537
		ENDL-82	1092	11.34	11.38	346.2	2.592	4.538 *
	INELAST.	JEF-1	4981			4.925 *	50.00-3	1.512 *
		ENDF/B-5	8851			4.925 *	50.00-3	1.512 *
		ENDL-82	1092			4.925 *	50.00-3	1.512 *
(N,2N)		JEF-1	4981			887.0-3 *	169.3-3	37.94-3 *
		ENDF/B-5	8851			887.0-3 *	169.3-3	37.94-3 *
		ENDL-82	1092			887.0-3 *	169.3-3	37.94-3 *
(N,3N)		JEF-1	4981			234.5-3 *	552.0-3	136.2-6 *
		ENDF/B-5	8851			234.5-3 *	552.0-3	136.2-6 *
		ENDL-82	1092			234.5-3 *	552.0-3	136.2-6 *
FISSION		JEF-1	4981	5.326+3	4.710+3	4.959+3	2.400	1.717
		ENDF/B-5	8851	5.326+3	4.710+3	4.959+3	2.400	1.717
		ENDL-82	1092	3.562+3	3.156+3 *	1.744+3	2.400	1.718 *
(N,4N)		JEF-1	4981			32.98-3 *		695.3-9 *
		ENDF/B-5	8851			32.98-3 *		595.3-9 *
		ENDL-82	1092			32.98-3 *		595.3-9 *
CAPTURE		JEF-1	4981	2.863+3	2.522+3	1.632+3	1.000-3	76.83-3
		ENDF/B-5	8851	2.863+3	2.522+3	1.632+3	1.000-3	76.83-3
		ENDL-82	1092	2.854+3	2.529+3 *	2.408+3	1.000-3	77.04-3 *
98-CF-252	TOTAL	JEF-1	4982	64.06	57.60	369.9	5.751	7.813
		ENDF/B-5	8852	64.06	57.60	369.9	5.751	7.814
		ENDL-82	1093	73.04	67.14	454.5	5.751	7.815 *
	ELASTIC	JEF-1	4982	11.21	11.18	198.1	2.600	4.666
		ENDF/B-5	8852	11.21	11.18	198.1	2.600	4.666
		ENDL-82	1093	18.72	18.72	285.6	2.600	4.668 *
	INELAST.	JEF-1	4982			4.397 *	200.0-3	1.179 *
		ENDF/B-5	8852			4.397 *	200.0-3	1.179 *
		ENDL-82	1093			4.397 *	200.0-3	1.179 *
(N,2N)		JEF-1	4982			389.6-3 *	150.0-3	8.653-3 *
		ENDF/B-5	8852			389.6-3 *	150.0-3	8.653-3 *
		ENDL-82	1093			389.6-3 *	150.0-3	8.653-3 *
(N,3N)		JEF-1	4982			140.5-3 *	263.6-3	80.08-6 *
		ENDF/B-5	8852			140.5-3 *	263.6-3	80.08-6 *
		ENDL-82	1093			140.5-3 *	263.6-3	80.08-6 *
FISSION		JEF-1	4982	32.28	28.35	119.5	2.536	1.920
		ENDF/B-5	8852	32.28	28.35	119.5	2.536	1.920
		ENDL-82	1093	33.67	30.01	113.7	2.536	1.920 *
(N,4N)		JEF-1	4982			5.175-3 *		55.37-9 *
		ENDF/B-5	8852			5.175-3 *		55.37-9 *
		ENDL-82	1093			5.175-3 *		55.37-9 *

NUCLIDE	REACTION	FILE	ID NO.	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW. AVG.	RES INTEG.	14-MEV	FISS. AVG.
98-CF-252	CAPTURE	JEF-1	4982	20.56	18.06	47.41	800.0-6	40.41-3
		ENDF/B-5	8852	20.56	18.06	47.41	800.0-6	40.41-3
		ENDL-82	1093	20.65	18.41	50.22	800.0-6	40.80-3 *
98-CF-253	TOTAL	JEF-1	4983	1.544+3	1.385+3	1.881+3	9.760	9.765
		ENDF/B-5	8853	1.544+3	1.385+3	1.881+3	9.760	9.765
	ELASTIC	JEF-1	4983	64.82	63.67	251.1	9.760	9.762
		ENDF/B-5	8853	64.82	63.67	251.1	9.760	9.762
	FISSION	JEF-1	4983	1.138+3	1.016+3	1.249+3		2.680-3
		ENDF/B-5	8853	1.138+3	1.016+3	1.249+3		2.680-3
	CAPTURE	JEF-1	4983	341.7	305.2	380.6		497.8-6
		ENDF/B-5	8853	341.7	305.2	380.6		497.8-6
99-ES-253	TOTAL	JEF-1	4993	210.1	197.0	7.060+3	9.760	9.764
		ENDF/B-5	8953	210.1	197.0	7.060+3	9.760	9.764
	ELASTIC	JEF-1	4993	8.796	8.689	703.0	9.760	9.764
		ENDF/B-5	8953	8.796	8.689	703.0	9.760	9.764
	CAPTURE	JEF-1	4993	201.3	187.9	6.357+3		547.2-6
		ENDF/B-5	8953	201.3	187.9	6.357+3		547.2-6