

**TABLE OF SIMPLE INTEGRAL  
NEUTRON CROSS SECTION DATA  
FROM JEF-2.2, ENDF/B-VI, JENDL-3.2,  
BROND-2 AND CENDL-2**



**NUCLEAR ENERGY AGENCY  
ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT  
AGENCE POUR L'ÉNERGIE NUCLÉAIRE  
ORGANISATION DE COOPÉRATION ET DE DÉVELOPPEMENT ÉCONOMIQUES**

## ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT

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- to achieve the highest sustainable economic growth and employment and a rising standard of living in Member countries, while maintaining financial stability, and thus to contribute to the development of the world economy;
- to contribute to sound economic expansion in Member as well as non-member countries in the process of economic development; and
- to contribute to the expansion of world trade on a multilateral, non-discriminatory basis in accordance with international obligations.

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*The primary objective of NEA is to promote co-operation among the governments of its participating countries in furthering the development of nuclear power as a safe, environmentally acceptable and economic energy source.*

*This is achieved by:*

- *encouraging harmonization of national regulatory policies and practices, with particular reference to the safety of nuclear installations, protection of man against ionising radiation and preservation of the environment, radioactive waste management, and nuclear third party liability and insurance;*
- *assessing the contribution of nuclear power to the overall energy supply by keeping under review the technical and economic aspects of nuclear power growth and forecasting demand and supply for the different phases of the nuclear fuel cycle;*
- *developing exchanges of scientific and technical information particularly through participation in common services;*
- *setting up international research and development programmes and joint undertakings.*

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## **INTRODUCTION**

This report is an updated version of JEF Report 3, which contained similar data for the libraries JEF-1, ENDF/B-V, JENDL-2, ENDL-82, KEDAK-4 and RCN-3.

The pointwise data in this report were produced using the codes LINEAR and RECENT by D.E. Cullen. The data were also doppler broadened to 300° K using the code SIGMA1 by the same author. A reconstruction accuracy of 0.1 % was used in all calcuses, set to 0.1%.

The integral data in this report have been obtained from a slightly modified version of the code INTER by C.L. Dunford. The modification, received as a private communication from C. Dean, Winfrith, UK, concerns the calculation of the fission maxwellian average cross section. The following parameters were used in the calculations:

- Maxwellian spectrum average
  - Temperature                    0.0253 eV
  - Integration limits            1.0E-05 to 10 eV
  
- Resonance integral
  - Spectrum                        1/E
  - Integration limits            0.5 eV to 100 keV
  
- Fission spectrum average
  - Temperature                    1.35 MeV
  - Integration limits            1 keV to 20 MeV
  
- 14 MeV value
  - Energy                            14.0 MeV

The results of the calculations are given in the following table.



NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
1-H - 1	Total	JEF-2.2	125	30.62	29.41	240.9	0.6894	3.994
		ENDF/B-VI	125	30.88	29.58	241.6	0.6904	4.014
		JENDL-3.2	125	30.49	29.28	240.5	0.6924	3.989
		BROND-2	101	31.44	30.07	240.7	0.6894	3.994
		CENDL-2	2011	30.58	29.37	241.1	0.6894	4.039
	Elast.	JEF-2.2	125	30.15	28.97	240.3	0.6893	3.994
		ENDF/B-VI	125	30.54	29.28	241.5	0.6904	4.014
		JENDL-3.2	125	30.13	28.96	240.2	0.6923	3.989
		BROND-2	101	30.17	28.99	240.4	0.6893	3.994
		CENDL-2	2011	30.11	28.93	240.4	0.6894	4.040
	n,g	JEF-2.2	125	0.3323	0.2944	0.1490	0.2983-04	0.3957-04
		ENDF/B-VI	125	0.3330	0.2958	0.1495	0.2967-04	0.3963-04
		JENDL-3.2	125	0.3322	0.2944	0.1489	0.2983-04	0.3957-04
		BROND-2	101	1.414	1.201	0.3005	0.2983-04	0.3957-04
		CENDL-2	2011	0.3323	0.2944	0.1512	0.3000-04	0.3845-04
1-H - 2	Total	JEF-2.2	128	4.238	4.161	41.29	0.8100	2.546
		ENDF/B-VI	128	4.256	4.187	41.43	0.8102	2.546
		JENDL-3.2	128	4.229	4.153	41.23	0.8023	2.542
		BROND-2	102	4.231	4.155	41.24	0.8197	2.506
		CENDL-2	2012	4.238	4.161	41.29	0.8100	2.546
	Elast.	JEF-2.2	128	4.236	4.160	41.29	0.6300	2.541
		ENDF/B-VI	128	4.255	4.186	41.43	0.6282	2.541
		JENDL-3.2	128	4.227	4.152	41.23	0.6247	2.537
		BROND-2	102	4.230	4.154	41.24	0.6441	2.500
		CENDL-2	2012	4.236	4.159	41.28	0.6377	2.541
	n,2n	JEF-2.2	128				0.1800	0.5832-02
		ENDF/B-VI	128				0.1800	0.5832-02
		JENDL-3.2	128				0.1772	0.5645-02
		BROND-2	102				0.1765	0.5849-02
		CENDL-2	2012				0.1723	0.5438-02
n,g	JEF-2.2	128	0.5062-03	0.4485-03	0.2284-03	0.9500-05	0.6952-05	
	ENDF/B-VI	128	0.5071-03	0.4499-03	0.2292-03	0.9467-05	0.6950-05	
	JENDL-3.2	128	0.5503-03	0.4877-03	0.2510-03	0.9512-05	0.7022-05	
	BROND-2	102	0.5186-03	0.4593-03	0.2325-03	0.9500-05	0.6959-05	
	CENDL-2	2012	0.5193-03	0.4600-03	0.2342-03	0.9500-05	0.6952-05	
1-H - 3	Total	JEF-2.2	131	1.517	1.502	15.89	0.9750	1.912
		ENDF/B-VI	131	1.526	1.510	15.90	0.9749	1.910
		BROND-2	103	1.984	1.964	20.73	0.9846	1.935
		CENDL-2	2013	1.982	1.963	20.47	0.9750	1.952
	Elast.	JEF-2.2	131	1.517	1.502	15.89	0.9250	1.912
		ENDF/B-VI	131	1.526	1.510	15.90	0.9236	1.910
		BROND-2	103	1.984	1.964	20.73	0.9337	1.935
		CENDL-2	2013	1.982	1.963	20.47	0.9250	1.952

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
1-H-3	n,2n	JEF-2.2	131				0.5000-01	0.1936-03
		ENDF/B-VI	131				0.5000-01	0.1936-03
		BROND-2	103				0.5000-01	0.1936-03
		CENDL-2	2013				0.5000-01	0.1936-03
	n,3n	BROND-2	103				0.2000-03	0.9136-07
		CENDL-2	2013				0.2000-03	0.9197-07
2-He-0	Total	BROND-2	204	0.8351	0.8296	8.924	1.080	3.624
	Elast.	BROND-2	204	0.8222	0.8171	8.916	1.080	3.625
	n,p	BROND-2	204	0.7367-02	0.6527-02	0.3300-02	0.1877-06	0.1105-05
2-He-3	Total	JEF-2.2	225	5322.	4716.	2388.	1.170	2.941
		ENDF/B-VI	225	5327.	4732.	2420.	1.170	2.966
		JENDL-3.2	225	5347.	4739.	2422.	1.169	2.939
		BROND-2	203	5345.	4738.	2435.	1.166	3.064
		CENDL-2	2021	5334.	4726.	2416.	1.199	3.025
	Elast.	JEF-2.2	225	1.167	1.156	12.75	0.9719	2.105
		ENDF/B-VI	225	3.900	3.855	38.77	0.9719	2.147
		JENDL-3.2	225	3.657	3.622	36.58	0.9552	2.115
		BROND-2	203	3.686	3.648	36.99	0.9300	2.260
		CENDL-2	2021	3.618	3.583	36.57	0.9245	2.206
	n,2n	BROND-2	203				0.3815-02	0.2344-05
		CENDL-2	2021				0.4000-02	0.1812-05
	n,g	ENDF/B-VI	225	0.3104-04	0.2757-04	0.1397-04	0.1330-08	0.4809-08
		JENDL-3.2	225	0.5405-04	0.4791-04	0.6146-04	0.3521-04	0.3901-04
		BROND-2	203	0.2503-04	0.2218-04	0.7719-04	0.3840-04	0.4253-04
		CENDL-2	2021	0.2711-04	0.2405-04	0.5808-04	0.1200-04	0.3029-04
	n,p	JEF-2.2	225	5321.	4715.	2374.	0.1220	0.8331
		ENDF/B-VI	225	5316.	5315.	2372.	0.1220	0.8141
		JENDL-3.2	225	5331.	4724.	2378.	0.1397	0.8207
		BROND-2	203	5338.	4730.	2391.	0.1360	0.8005
		CENDL-2	2021	5330.	4722.	2378.	0.1409	0.8152
	n,d	JEF-2.2	225				0.7610-01	0.2864-02
		ENDF/B-VI	225				0.7610-01	0.2863-02
		JENDL-3.2	225				0.7407-01	0.2885-02
BROND-2		203				0.7450-01	0.3055-02	
CENDL-2		2021				0.7500-01	0.2942-02	
2-He-4	Total	JEF-2.2	228	0.8543	0.8490	9.276	1.059	3.660
		ENDF/B-VI	228	0.8564	0.8531	9.307	1.064	3.664
		JENDL-3.2	228	0.8548	0.8497	9.274	1.053	3.657
		BROND-2	203	0.8543	0.8490	9.374	1.070	3.604
		CENDL-2	2022					

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
2-He- 4	Elast.	JEF-2.2	228	0.8543	0.8490	9.276	1.059	3.660
		ENDF/B-VI	228	0.8564	0.8531	9.307	1.064	3.664
		JENDL-3.2	228	0.8548	0.8497	9.274	1.053	3.657
		CENDL-2	2022	0.8543	0.8490	9.374	1.070	3.604
3-Li- 6	Total	JEF-2.2	325	941.3	834.3	431.2	1.449	1.910
		ENDF/B-VI	325	943.0	837.7	432.1	1.449	1.926
		JENDL-3.2	325	944.2	836.8	432.7	1.432	1.919
		BROND-2	306	941.8	834.6	431.7	1.452	1.926
		CENDL-2	2031	941.8	834.6	431.8	1.452	1.908
	Elast.	JEF-2.2	325	0.7701	0.7681	8.632	0.9667	1.444
		ENDF/B-VI	325	0.7296	0.7311	8.222	0.8619	1.445
		JENDL-3.2	325	0.7966	0.7945	8.978	0.9058	1.433
		BROND-2	306	0.8073	0.7974	8.834	0.8978	1.452
		CENDL-2	2031	0.7817	0.7797	8.780	0.8475	1.400
	Inel.	JEF-2.2	325				0.3721	0.1353
		ENDF/B-VI	325				0.4769	0.1484
		JENDL-3.2	325				0.4120	0.1422
		BROND-2	306				0.4420	0.1384
		CENDL-2	2031				0.1800-02	0.6195-03
	n,2n	JENDL-3.2	325				0.7805-01	0.2522-03
		CENDL-2	2031				0.7533-01	0.2861-03
	n,g	JEF-2.2	325	0.3854-01	0.3415-01	0.1730-01	0.1018-04	0.1171-04
		ENDF/B-VI	325	0.3855-01	0.3425-01	0.1735-01	0.1021-04	0.1177-04
		JENDL-3.2	325	0.3851-01	0.3413-01	0.1728-01	0.8204-04	0.2803-04
		BROND-2	306	0.3814-01	0.3278-01	0.1730-01	0.1018-04	0.1171-04
	n,p	JEF-2.2	325				0.6100-02	0.4243-02
		ENDF/B-VI	325				0.6100-02	0.4243-02
		JENDL-3.2	325				0.6766-02	0.4236-02
		BROND-2	306				0.7250-02	0.4145-02
		CENDL-2	2031				0.6000-02	0.4069-02
	n,t	JEF-2.2	325	941.1	833.5	422.6	0.2600-01	0.3254
		ENDF/B-VI	325	941.0	833.8	422.3	0.2600-01	0.3264
		JENDL-3.2	325	940.8	833.8	422.4	0.2804-01	0.3392
		BROND-2	306	941.0	833.8	422.4	0.2700-01	0.3311
	n,a	CENDL-2	2031	941.0	833.8	422.6	0.2820-01	0.3503
	3-Li- 7	Total	JEF-2.2	328	1.163	1.156	12.80	1.440
ENDF/B-VI			328	1.093	1.086	12.51	1.448	1.819
JENDL-3.2			328	1.087	1.080	11.87	1.471	1.844
BROND-2			307	1.175	1.169	12.83	1.454	1.843
CENDL-2			2032	1.040	1.038	12.48	1.742	1.867

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
3-Li- 7	Elast.	JEF-2.2	328	1.126	1.123	12.78	1.008	1.642	
		ENDF/B-VI	328	1.042	1.042	12.48	1.015	1.641	
		JENDL-3.2	328	1.041	1.039	11.85	1.025	1.661	
		BROND-2	307	1.126	1.123	12.80	0.8625	1.665	
		CENDL-2	2032	1.040	1.038	12.48	0.9800	1.664	
	Inel.	JEF-2.2	328				0.3711	0.1774	
		ENDF/B-VI	328				0.3692	0.1782	
		JENDL-3.2	328				0.3651	0.1834	
		BROND-2	307				0.4997	0.1784	
		CENDL-2	2032				0.3692	0.1782	
	n,2n	JEF-2.2	328				0.2040-01	0.5387-04	
		ENDF/B-VI	328				0.3176-01	0.5797-04	
		JENDL-3.2	328				0.7009-01	0.6273-04	
		BROND-2	307				0.3600-01	0.3492-04	
		CENDL-2	2032				0.4900-01	0.1002-03	
	n,g	JEF-2.2	328	0.3597-01	0.3183-01	0.1649-01	0.1000-04	0.1046-04	
		ENDF/B-VI	328	0.4567-01	0.4041-01	0.2045-01	0.4120-05	0.7196-05	
		JENDL-3.2	328	0.4542-01	0.4026-01	0.2039-01	0.1932-05	0.7013-05	
		BROND-2	307	0.4545-01	0.4027-01	0.2043-01	0.5000-05	0.7727-05	
	n,d	JEF-2.2	328				0.9995-02	0.8630-05	
		ENDF/B-VI	328				0.1000-01	0.8627-05	
		JENDL-3.2	328				0.9763-02	0.1671-04	
		BROND-2	307				0.9770-02	0.1664-04	
		CENDL-2	2032				0.1200-01	0.2099-04	
	n,t	CENDL-2	2032				0.3320	0.2449-01	
	4-Be- 9	Total	JEF-2.2	425	6.345	6.339	72.90	1.505	2.849
			ENDF/B-VI	425	6.537	6.518	74.65	1.522	2.865
			JENDL-3.2	425	6.506	6.498	74.14	1.495	2.855
CENDL-2			2040	6.505	6.498	74.49	1.475	2.836	
Elast.		JEF-2.2	425	6.336	6.329	72.88	0.9541	2.693	
		ENDF/B-VI	425	6.528	6.510	74.61	1.013	2.710	
		JENDL-3.2	425	6.496	6.488	74.12	0.9600	2.696	
		CENDL-2	2040	6.495	6.488	74.44	0.9377	2.668	
Inel.		JEF-2.2	425				0.5231	0.1195	
		JENDL-3.2	425				0.2289-01	0.5687-04	
n,2n		ENDF/B-VI	425				0.4860	0.1182	
		JENDL-3.2	425				0.2691	0.5345-01	
		CENDL-2	2040				0.5101	0.1315	
n,g		JEF-2.2	425	0.7608-02	0.6741-02	0.3895-02	0.1000-03	0.1000-03	
		ENDF/B-VI	425	0.8632-02	0.7668-02	0.4351-02	0.1000-03	0.1000-03	
		JENDL-3.2	425	0.7604-02	0.6739-02	0.3414-02	0.3234-06	0.1174-05	
		CENDL-2	2040	0.8600-02	0.7650-02	0.4343-02	0.1000-03	0.1000-03	

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
4-Be- 9	n,p	JEF-2.2	425				0.7293-10	0.6276-07
		ENDF/B-VI	425					0.5228-07
		JENDL-3.2	425					0.5152-07
		CENDL-2	2040					0.2601-06
	n,d	JEF-2.2	425				0.6765-07	
		ENDF/B-VI	425				0.1048-06	
		JENDL-3.2	425				0.1051-06	
		CENDL-2	2040				0.1188-06	
	n,t	JEF-2.2	425				0.1800-01	0.6559-05
		ENDF/B-VI	425				0.1800-01	0.6341-05
		JENDL-3.2	425				0.1836-01	0.5648-05
		CENDL-2	2040				0.1783-01	0.5573-05
	n,a	JEF-2.2	425				0.1100-01	0.3608-01
		ENDF/B-VI	425				0.1050-01	0.3604-01
		JENDL-3.2	425				0.9419-02	0.3464-01
		CENDL-2	2040				0.9997-02	0.3596-01
5-B - 10	Total	JEF-2.2	525	3846.	3409.	1750.	1.468	2.640
		ENDF/B-VI	525	3847.	3418.	1754.	1.469	2.642
		JENDL-3.2	525	3851.	3414.	1749.	1.467	2.664
		CENDL-2	2051	0.2074+05	0.2195+05	2680.	1.467	2.642
	Elast.	JEF-2.2	525	2.250	2.249	26.35	0.9144	2.105
		ENDF/B-VI	525	2.273	2.266	26.50	0.9088	2.091
		JENDL-3.2	525	2.252	2.250	26.51	0.9433	2.081
		CENDL-2	2051	2.390	2.388	28.02	0.9433	2.046
	Inel.	JEF-2.2	525				0.3399	0.3310-01
		ENDF/B-VI	525				0.3536	0.3662-01
		JENDL-3.2	525				0.2685	0.7035-01
		CENDL-2	2051				0.2685	0.7034-01
	n,2n	JENDL-3.2	525				0.2683-01	0.4983-04
		CENDL-2	2051				0.2683-01	0.4983-04
	n,g	JEF-2.2	525	0.5004	0.4432	0.2232		0.3316-04
		ENDF/B-VI	525	0.5005	0.4445	0.2238		0.3322-04
		JENDL-3.2	525	0.5003	0.4434	0.2246	0.2126-04	0.7723-04
		CENDL-2	2051	0.5005	0.4435	0.2247	0.2126-04	0.7723-04
	n,p	JEF-2.2	525	0.5665-03	0.5020-03	0.2596-03	0.3280-01	0.8179-02
		ENDF/B-VI	525	0.5660-03	0.5659-03	0.2600-03	0.3444-01	0.1007-01
		JENDL-3.2	525	0.3002-02	0.2660-02	0.1348-02	0.3752-01	0.1505-01
		CENDL-2	2051	0.3003-02	0.2661-02	0.1348-02	0.3751-01	0.1505-01
	n,d	JEF-2.2	525				0.2998-01	0.1263-02
		ENDF/B-VI	525				0.3147-01	0.1269-02
		JENDL-3.2	525				0.4763-01	0.1405-02
		CENDL-2	2051				0.4763-01	0.1405-02

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
5-B - 10	n,a	JEF-2.2	525	3843.	3405.	1722.	0.6022-01	0.4499
		ENDF/B-VI	525	3840.	3840.	1721.	0.4437-01	0.4587
		JENDL-3.2	525	3839.	3402.	1717.	0.4895-01	0.4435
		CENDL-2	2051	3846.	3409.	1722.	0.4895-01	0.4578
5-B - 11	Total	JEF-2.2	528	5.070	5.066	59.26	1.415	2.445
		ENDF/B-VI	528	5.088	5.081	59.47	1.413	2.446
		JENDL-3.2	528	5.284	5.280	60.94	1.416	2.443
		CENDL-2	2052	5.072	5.067	58.94	1.419	2.456
	Elast.	JEF-2.2	528	5.062	5.059	59.26	0.7921	2.413
		ENDF/B-VI	528	5.083	5.076	59.45	0.7912	2.414
		JENDL-3.2	528	5.278	5.272	60.93	0.9341	2.413
		CENDL-2	2052	5.064	5.059	58.91	0.9684	2.424
	Inel.	JEF-2.2	528				0.2687	0.3167-01
		ENDF/B-VI	528				0.2688	0.3162-01
		JENDL-3.2	528				0.2983	0.3008-01
		CENDL-2	2052				0.2687	0.3162-01
	n,2n	JEF-2.2	528				0.1800-01	0.4787-05
		ENDF/B-VI	528				0.1800-01	0.4789-05
		JENDL-3.2	528				0.1414-02	0.1233-05
		CENDL-2	2052				0.1414-02	0.1233-05
	n,g	JEF-2.2	528	0.5506-02	0.4879-02	0.2743-02	0.2150-06	0.2781-05
		ENDF/B-VI	528	0.5532-02	0.4895-02	0.2750-02	0.2143-06	0.2785-05
		JENDL-3.2	528	0.5088-02	0.4512-02	0.2520-02		0.5523-05
		CENDL-2	2052	0.5506-02	0.4879-02	0.2903-02		0.5545-05
	n,p	JEF-2.2	528				0.5500-02	0.1575-05
		ENDF/B-VI	528				0.5500-02	0.1575-05
		JENDL-3.2	528				0.4021-02	0.1181-05
		CENDL-2	2052				0.4021-02	0.1181-05
	n,d	JENDL-3.2	528				0.9200-02	0.7230-05
		CENDL-2	2052				0.9200-02	0.7230-05
	n,t	JEF-2.2	528				0.1500-01	0.4792-05
		ENDF/B-VI	528				0.1500-01	0.4793-05
		JENDL-3.2	528				0.1496-01	0.6616-05
		CENDL-2	2052				0.1496-01	0.6616-05
	n,a	JEF-2.2	528				0.3198-01	0.7180-04
		ENDF/B-VI	528				0.3200-01	0.7183-04
JENDL-3.2		528				0.3138-01	0.8918-04	
CENDL-2		2052				0.3138-01	0.8918-04	
6-C - 0	Total	JEF-2.2	600	4.943	4.942	57.56	1.302	2.385
		ENDF/B-VI	600	4.971	4.971	58.03	1.302	2.393
		BROND-2	600	4.943	4.942	57.56	1.302	2.385

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
6-C - 0	Elast.	JEF-2.2	600	4.938	4.937	57.54	0.8193	2.371
		ENDF/B-VI	600	4.967	4.968	58.03	0.8193	2.380
		BROND-2	600	4.939	4.937	57.54	0.8193	2.371 -
	Inel.	JEF-2.2	600				0.4251	0.1205-01
		ENDF/B-VI	600				0.4207	0.1222-01
		BROND-2	600				0.4207	0.1222-01
	n,g	JEF-2.2	600	0.3370-02	0.2995-02	0.1527-02	0.1157-03	0.9490-05
		ENDF/B-VI	600	0.3372-02	0.3003-02	0.1531-02	0.1149-03	0.9488-05
		BROND-2	600	0.3370-02	0.2995-02	0.1527-02	0.1157-03	0.9490-05
	n,p	JEF-2.2	600					0.4954-06
		ENDF/B-VI	600					0.4968-06
		BROND-2	600					0.4968-06
	n,d	JEF-2.2	600					0.1289-05
		ENDF/B-VI	600					0.1299-05
		BROND-2	600					0.1299-05
	n,t	ENDF/B-VI	600					
		BROND-2	600					
	n,a	JEF-2.2	600				0.8151-01	0.1510-02
		ENDF/B-VI	600				0.6230-01	0.1366-02
		BROND-2	600				0.6230-01	0.1366-02
	6-C - 12	Total	JENDL-3.2	625	4.951	4.948	57.61	1.304
Elast.		JENDL-3.2	625	4.946	4.942	57.58	0.8036	2.370
Inel.		JENDL-3.2	625				0.4269	0.1255-01
n,g		JENDL-3.2	625	0.3532-02	0.3130-02	0.1616-02	0.7041-04	0.2307-04
n,p		JENDL-3.2	625				0.1640-03	0.5025-06
n,d		JENDL-3.2	625					0.6412-06
n,a		JENDL-3.2	625				0.7265-01	0.1530-02
7-N - 14	Total	JEF-2.2	725	12.25	12.04	108.0	1.571	1.999
		ENDF/B-VI	725	12.21	12.02	112.2	1.569	2.010
		JENDL-3.2	725	12.25	12.03	108.6	1.578	1.978
		BROND-2	710	12.25	12.04	108.0	1.571	2.097
		CENDL-2	2071	12.30	12.12	109.3	1.572	2.001
	Elast.	JEF-2.2	725	10.32	10.31	107.1	0.8858	1.867
		ENDF/B-VI	725	10.30	10.33	111.3	0.9693	1.871
		JENDL-3.2	725	10.37	10.36	107.6	0.9839	1.848
		BROND-2	710	10.25	9.993	93.16	0.9389	1.964
		CENDL-2	2071	10.32	10.31	108.2	0.8824	1.861

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
7-N - 14	Inel.	JEF-2.2	725				0.4300	0.8829-02
		ENDF/B-VI	725				0.3667	0.1113-01
		JENDL-3.2	725				0.3993	0.1224-01
		BROND-2	710				0.1883	0.1524-01
		CENDL-2	2071				0.4384	0.1408-01
	n,2n	JEF-2.2	725				0.6530-02	0.2071-05
		ENDF/B-VI	725				0.6263-02	0.2004-05
		JENDL-3.2	725				0.5670-02	0.2031-05
		BROND-2	710				0.5900-02	0.2008-05
		CENDL-2	2071				0.5834-02	0.2081-05
	n,g	JEF-2.2	725	0.7506-01	0.6650-01	0.3363-01	0.1650-04	0.2616-04
		ENDF/B-VI	725	0.7509-01	0.6669-01	0.3373-01	0.1727-04	0.3652-04
		JENDL-3.2	725	0.7504-01	0.6651-01	0.3369-01	0.1036-05	0.3469-04
		BROND-2	710	0.7506-01	0.6650-01	0.3363-01	0.1650-04	0.1322-03
		CENDL-2	2071	0.7858-01	0.7158-01	0.4487-01	0.1650-04	0.2621-04
	n,p	JEF-2.2	725	1.821	1.613	0.8177	0.4325-01	0.3547-01
		ENDF/B-VI	725	1.827	1.827	0.8196	0.4447-01	0.3830-01
		JENDL-3.2	725	1.770	1.569	0.7949	0.4200-02	0.3433-01
		BROND-2	710	1.923	1.976	14.88	0.5404-01	0.3490-01
		CENDL-2	2071	1.906	1.737	1.091	0.4324-01	0.3842-01
	n,d	JEF-2.2	725				0.4111-01	0.4168-03
		ENDF/B-VI	725				0.4255-01	0.4343-03
		JENDL-3.2	725				0.3266-01	0.3810-03
		BROND-2	710				0.1117	0.8578-03
		CENDL-2	2071				0.4113-01	0.4168-03
	n,t	JEF-2.2	725				0.2995-01	0.9550-03
		ENDF/B-VI	725				0.2891-01	0.9874-03
		JENDL-3.2	725				0.1000-01	0.8433-03
BROND-2		710				0.3497-01	0.1611-02	
CENDL-2		2071				0.2995-01	0.9549-03	
n,a	JEF-2.2	725				0.1017	0.8613-01	
	ENDF/B-VI	725				0.8037-01	0.8763-01	
	JENDL-3.2	725				0.6010-01	0.8214-01	
	BROND-2	710				0.1514	0.7992-01	
	CENDL-2	2071				0.9836-01	0.8630-01	
7-N - 15	Total	JEF-2.2	728	4.749	4.744	55.70	1.643	2.693
		ENDF/B-VI	728	4.583	4.573	52.15	1.652	2.619
		JENDL-3.2	728	4.746	4.744	55.72	1.643	2.693
		BROND-2	720	4.731	4.727	55.59	1.652	2.728
	Elast.	JEF-2.2	728	4.749	4.744	55.70	1.080	2.686
		ENDF/B-VI	728	4.582	4.573	52.15	0.9611	2.607
		JENDL-3.2	728	4.744	4.742	55.71	1.080	2.686
		BROND-2	720	4.730	4.725	55.57	0.5670	2.715
	Inel.	JEF-2.2	728				0.3293	0.6927-02
		ENDF/B-VI	728				0.4061	0.1204-01
		JENDL-3.2	728				0.3293	0.6927-02
		BROND-2	720				0.6685	0.1311-01

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
7-N - 15	n,2n	JEF-2.2	728				0.6275-01	0.2033-04
		ENDF/B-VI	728				0.1071	0.3305-04
		JENDL-3.2	728				0.6275-01	0.2033-04
		BROND-2	720				0.4296-01	0.1478-04
	n,g	JEF-2.2	728	0.2428-04	0.2151-04	0.1091-04	0.4817-06	0.1773-05
		ENDF/B-VI	728	0.2415-04	0.2139-04	0.3208-04	0.8600-05	0.1873-04
		JENDL-3.2	728	0.2433-04	0.2158-04	0.1094-04	0.4823-06	0.1768-05
		BROND-2	720	0.2406-04	0.2133-04	0.1082-04	0.3526-10	0.1104-06
	n,p	JEF-2.2	728				0.2587-01	0.2376-04
		ENDF/B-VI	728				0.1985-01	0.1783-04
		JENDL-3.2	728				0.2587-01	0.2376-04
		BROND-2	720				0.2665-01	0.9872-05
	n,d	JEF-2.2	728				0.1514-01	0.5442-04
		ENDF/B-VI	728				0.1529-01	0.6767-04
		JENDL-3.2	728				0.1514-01	0.5442-04
		BROND-2	720				0.3012-01	0.7641-04
	n,t	JEF-2.2	728				0.2553-01	0.1251-04
		ENDF/B-VI	728				0.2027-01	0.1128-04
		JENDL-3.2	728				0.2553-01	0.1251-04
		BROND-2	720				0.4024-01	0.2249-04
	n,a	JEF-2.2	728				0.6009-01	0.7859-04
		ENDF/B-VI	728				0.6855-01	0.8944-04
		JENDL-3.2	728				0.6009-01	0.7859-04
		BROND-2	720				0.2247	0.1739-03
8-O - 16	Total	JEF-2.2	825	4.016	4.012	47.27	1.607	2.807
		ENDF/B-VI	825	4.034	4.026	47.43	1.607	2.810
		JENDL-3.2	825	3.902	3.900	45.98	1.611	2.781
		BROND-2	816	3.887	3.884	45.81	1.619	2.854
		CENDL-2	2081	3.873	3.869	45.62	1.611	2.825
	Elast.	JEF-2.2	825	4.014	4.011	47.27	0.9539	2.790
		ENDF/B-VI	825	4.032	4.025	47.44	0.9539	2.792
		JENDL-3.2	825	3.899	3.898	45.96	0.8978	2.768
		BROND-2	816	3.887	3.883	45.81	0.9560	2.840
		CENDL-2	2081	3.866	3.866	45.60	0.8961	2.811
	Inel.	JEF-2.2	825				0.4325	0.5033-02
		ENDF/B-VI	825				0.4325	0.5033-02
		JENDL-3.2	825				0.5084	0.4704-02
		BROND-2	816				0.4744	0.3831-02
		CENDL-2	2081				0.4849	0.4892-02
	n,2n	JENDL-3.2	825					0.7244-07
	n,g	JEF-2.2	825	0.1902-03	0.1685-03	0.8538-04	0.8078-08	0.2935-07
		ENDF/B-VI	825	0.1903-03	0.1691-03	0.8565-04	0.8088-08	0.2942-07
		JENDL-3.2	825	0.1901-03	0.1685-03	0.1669-03	0.1000-03	0.9462-04
		BROND-2	816	0.1782-03	0.1579-03	0.7998-04	0.7567-08	0.2749-07
		CENDL-2	2081	0.2388-03	0.2250-03	0.1315-03	0.7567-08	0.2458-05

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
8-O - 16	n,p	JEF-2.2	825				0.4280-01	0.3489-04
		ENDF/B-VI	825				0.4280-01	0.3489-04
		JENDL-3.2	825				0.4370-01	0.3456-04
		BROND-2	816				0.4712-01	0.3602-04
		CENDL-2	2081				0.4474-01	0.3762-04
	n,d	JEF-2.2	825				0.1530-01	0.6988-05
		ENDF/B-VI	825				0.1530-01	0.6988-05
		JENDL-3.2	825				0.1540-01	0.7028-05
		BROND-2	816				0.1530-01	0.6988-05
		CENDL-2	2081				0.1530-01	0.6989-05
	n,a	JEF-2.2	825				0.1620	0.1281-01
		ENDF/B-VI	825				0.1620	0.1281-01
		JENDL-3.2	825				0.1090	0.8002-02
		BROND-2	816				0.1263	0.9524-02
		CENDL-2	2081				0.1680	0.8850-02
8-O - 17	Total	JEF-2.2	828	4.166	4.207	45.78	1.678	1.525
		ENDF/B-VI	828	4.173	4.222	45.89	1.673	1.523
	Elast.	JEF-2.2	828	3.851	3.851	44.86	0.7200	1.369
		ENDF/B-VI	828	3.870	3.864	44.99	0.7200	1.370
	Inel.	JEF-2.2	828				0.5299	0.6049-01
		ENDF/B-VI	828				0.5299	0.6049-01
	n,2n	JEF-2.2	828				0.6464-01	0.6160-04
		ENDF/B-VI	828				0.6464-01	0.6160-04
	n,g	JEF-2.2	828	0.3833-02	0.3394-02	0.1712-02	0.2080-03	0.1937-03
		ENDF/B-VI	828	0.3836-02	0.3404-02	0.1717-02	0.2080-03	0.1937-03
	n,p	JEF-2.2	828				0.4021-01	0.2158-04
		ENDF/B-VI	828				0.4021-01	0.2158-04
	n,d	JEF-2.2	828				0.1827-01	0.6003-05
	n,a	JEF-2.2	828	0.2353	0.2085	0.1059	0.2624	0.9494-01
		ENDF/B-VI	828	0.2350	0.2350	0.1058	0.2624	0.9494-01
9-F - 19	Total	JEF-2.2	925	4.120	4.116	51.79	1.747	3.472
		ENDF/B-VI	925	3.766	3.762	51.79	1.764	3.660
		JENDL-3.2	925	3.749	3.747	51.13	1.741	3.650
		BROND-2	919	4.120	4.116	53.41	1.756	3.651
		CENDL-2	2091	3.754	3.750	51.70	1.761	3.658
	Elast.	JEF-2.2	925	4.106	4.104	51.76	0.8275	2.224
		ENDF/B-VI	925	3.747	3.750	51.68	0.9455	2.670
		JENDL-3.2	925	3.740	3.739	51.11	1.046	2.352
		BROND-2	919	4.106	4.104	53.38	0.5784	2.204
		CENDL-2	2091	3.740	3.739	51.66	0.9475	2.669

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
9-F - 19	Inel.	JEF-2.2	925				0.7491	1.230
		ENDF/B-VI	925				0.2446	0.9671
		JENDL-3.2	925				0.1642	1.276
		BROND-2	919				0.5995	1.424
		CENDL-2	2091				0.2446	0.9669
	n,2n	JEF-2.2	925				0.4900-01	0.1805-04
		ENDF/B-VI	925				0.4052-01	0.1503-04
		JENDL-3.2	925				0.4294-01	0.1692-04
		BROND-2	919				0.3700-01	0.1253-04
		CENDL-2	2091				0.4052-01	0.1503-04
	n,g	JEF-2.2	925	0.9511-02	0.8426-02	0.1990-01	0.1000-04	0.2117-03
		ENDF/B-VI	925	0.9574-02	0.8497-02	0.2260-01	0.1267-04	0.2007-03
		JENDL-3.2	925	0.9575-02	0.8485-02	0.1797-01	0.2568-04	0.2213-03
		BROND-2	919	0.9580-02	0.8469-02	0.1903-01	0.3358-05	0.2504-03
		CENDL-2	2091	0.9561-02	0.8470-02	0.2258-01	0.1264-04	0.2007-03
	n,p	JEF-2.2	925				0.1700-01	0.1261-02
		ENDF/B-VI	925				0.1860-01	0.1267-02
		JENDL-3.2	925				0.1466-01	0.1285-02
		BROND-2	919				0.2250-01	0.1367-02
		CENDL-2	2091				0.1860-01	0.1267-02
	n,d	JEF-2.2	925				0.1200-01	0.6737-04
		ENDF/B-VI	925				0.2200-01	0.6289-04
		JENDL-3.2	925				0.3408-01	0.1009-03
		BROND-2	919				0.2200-01	0.6289-04
		CENDL-2	2091				0.2200-01	0.6289-04
	n,t	JEF-2.2	925				0.7625-02	0.1535-04
		ENDF/B-VI	925				0.1280-01	0.1176-04
		JENDL-3.2	925				0.1530-01	0.4396-04
		BROND-2	919				0.1280-01	0.1176-04
		CENDL-2	2091				0.1280-01	0.1176-04
n,He3	BROND-2	919					0.6529-11	
n,a	JEF-2.2	925				0.2500-01	0.1608-01	
	ENDF/B-VI	925				0.2862-01	0.1555-01	
	JENDL-3.2	925				0.2134-01	0.1490-01	
	BROND-2	919				0.3600-01	0.1519-01	
	CENDL-2	2091				0.2862-01	0.1555-01	
11-Na- 22	Total	JEF-2.2	1122	0.2920+05	0.2592+05	0.1577+05	1.664	2.940
	Elast.	JEF-2.2	1122	74.20	74.19	962.0	0.7271	2.045
	Inel.	JEF-2.2	1122				0.6222-01	0.2150
	n,2n	JEF-2.2	1122				0.2696-01	0.1002-04
	n,g	JEF-2.2	1122	252.4	223.9	128.4	0.2100-03	0.7727-03
	n,p	JEF-2.2	1122	0.2885+05	0.2560+05	0.1467+05	0.7432-01	0.4459

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
11-Na-22	n,d	JEF-2.2	1122				0.1953-01	0.8333-03
	n,a	JEF-2.2	1122	28.84	25.59	14.74	0.2767-01	0.2300
11-Na-23	Total	JEF-2.2	1125	3.625	3.562	123.0	1.740	3.150
		ENDF/B-VI	1125	3.955	3.874	118.4	1.719	3.223
		JENDL-3.2	1125	3.622	3.562	123.0	1.716	3.225
		BROND-2	1123	3.813	3.758	123.6	1.690	3.196
		CENDL-2	2110	3.625	3.562	121.7	1.701	3.231
	Elast.	JEF-2.2	1125	3.090	3.091	122.7	0.8042	2.621
		ENDF/B-VI	1125	3.426	3.404	118.1	0.7497	2.711
		JENDL-3.2	1125	3.090	3.090	122.7	0.7800	2.694
		BROND-2	1123	3.270	3.271	123.3	0.7368	2.624
		CENDL-2	2110	3.090	3.091	121.4	0.7422	2.793
	Inel.	JEF-2.2	1125				0.4702	0.5256
		ENDF/B-VI	1125				0.7490	0.5090
		JENDL-3.2	1125				0.4702	0.5287
		BROND-2	1123				0.7050	0.5700
		CENDL-2	2110				0.3660	0.4352
	n,2n	JEF-2.2	1125				0.1800-01	0.6056-05
		ENDF/B-VI	1125				0.2000-01	0.9811-05
		JENDL-3.2	1125				0.1800-01	0.5998-05
		BROND-2	1123				0.2750-01	0.1098-04
		CENDL-2	2110				0.1643-01	0.7000-05
	n,g	JEF-2.2	1125	0.5319	0.4713	0.3101	0.1495-03	0.2300-03
		ENDF/B-VI	1125	0.5288	0.4697	0.3153	0.2124-03	0.2810-03
		JENDL-3.2	1125	0.5316	0.4712	0.3100	0.1495-03	0.2300-03
		BROND-2	1123	0.5305	0.4696	0.3217	0.2129-03	0.2769-03
		CENDL-2	2110	0.5319	0.4713	0.3101	0.2398-03	0.2445-03
	n,p	JEF-2.2	1125				0.4367-01	0.1715-02
		ENDF/B-VI	1125				0.6020-01	0.1677-02
		JENDL-3.2	1125				0.4367-01	0.1715-02
		BROND-2	1123				0.4900-01	0.1629-02
		CENDL-2	2110				0.3847-01	0.1783-02
	n,d	CENDL-2	2110				0.2202-01	0.5226-04
	n,t	CENDL-2	2110				0.2351-02	0.8230-06
	n,He3	CENDL-2	2110					0.1320-10
	n,a	JEF-2.2	1125				0.1338	0.7832-03
		ENDF/B-VI	1125				0.1400	0.8314-03
		JENDL-3.2	1125				0.1338	0.7832-03
BROND-2		1123				0.1530	0.7914-03	
CENDL-2		2110				0.1306	0.7045-03	

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
12-Mg- 0	Total	JEF-2.2	1200	3.473	3.475	48.16	1.780	3.317
		ENDF/B-VI	1200	3.473	3.484	50.68	1.765	3.463
		JENDL-3.2	1200	3.668	3.661	50.48	1.766	3.475
		CENDL-2	2120	3.119	3.237	51.39	1.762	3.484
	Elast.	JEF-2.2	1200	3.406	3.410	48.12	0.7957	3.012
		ENDF/B-VI	1200	3.414	3.412	50.62	0.7868	3.186
		JENDL-3.2	1200	3.605	3.605	50.44	0.5575	3.139
		CENDL-2	2120	3.052	3.178	51.35	0.7633	3.220
	Inel.	JEF-2.2	1200				0.5871	0.2989
		ENDF/B-VI	1200				0.5857	0.2718
		JENDL-3.2	1200				0.6046	0.3271
		CENDL-2	2120				0.5059	0.2580
	n,2n	JEF-2.2	1200				0.3560-01	0.4856-04
		ENDF/B-VI	1200				0.3532-01	0.4852-04
		JENDL-3.2	1200				0.1164	0.1435-03
		CENDL-2	2120				0.1001	0.1813-03
	n,3n	CENDL-2	2120					0.3684-10
	n,g	JEF-2.2	1200	0.6307-01	0.5592-01	0.3078-01	0.3000-03	0.6815-03
		ENDF/B-VI	1200	0.6337-01	0.5610-01	0.3086-01	0.3000-03	0.6849-03
		JENDL-3.2	1200	0.6301-01	0.5584-01	0.3460-01	0.3020-04	0.3710-03
		CENDL-2	2120	0.6543-01	0.5904-01	0.3257-01	0.3500-03	0.7926-03
	n,p	JEF-2.2	1200				0.1715	0.1542-02
		ENDF/B-VI	1200				0.1699	0.1541-02
		JENDL-3.2	1200				0.1637	0.1754-02
		CENDL-2	2120				0.1490	0.2616-02
	n,d	CENDL-2	2120				0.6855-02	0.2551-05
	n,t	CENDL-2	2120				0.2913-03	0.8506-07
	n,He3	CENDL-2	2120				0.1000-14	0.3335-08
n,a	JEF-2.2	1200				0.1765	0.3301-02	
	ENDF/B-VI	1200				0.1753	0.3306-02	
	JENDL-3.2	1200				0.1511	0.6546-02	
	CENDL-2	2120				0.9852-01	0.1937-02	
12-Mg- 24	Total	JENDL-3.2	1225	3.878	3.872	53.96	1.798	3.707
	Elast.	JENDL-3.2	1225	3.827	3.827	53.93	0.5754	3.359
	Inel.	JENDL-3.2	1225				0.6450	0.3382
	n,2n	JENDL-3.2	1225					0.2115-06
	n,g	JENDL-3.2	1225	0.5032-01	0.4459-01	0.2910-01	0.3439-04	0.3885-03
	n,p	ENDF/B-VI	1225				0.1965	0.1837-02
	JENDL-3.2	1225				0.1965	0.1988-02	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
12-Mg- 24	n,a	JENDL-3.2	1225				0.1635	0.6082-02
12-Mg- 25	Total	JENDL-3.2	1228	2.838	2.816	41.24	1.824	3.102
	Elast.	JENDL-3.2	1228	2.647	2.647	41.15	0.6835	2.734
	Inel.	JENDL-3.2	1228				0.2467	0.3452
	n,2n	JENDL-3.2	1228				0.7101	0.1295-02
	n,g	JENDL-3.2	1228	0.1905	0.1688	0.9714-01	0.6961-05	0.3573-03
	n,p n,a	JENDL-3.2 JENDL-3.2	1228 1228				0.4898-01 0.1270	0.1803-02 0.1716-01
12-Mg- 26	Total	JENDL-3.2	1231	2.924	2.919	33.89	1.848	3.277
	Elast.	JENDL-3.2	1231	2.885	2.885	33.87	0.6792	3.044
	Inel.	JENDL-3.2	1231				0.6395	0.2322
	n,2n	JENDL-3.2	1231				0.4126	0.1257-03
	n,g	JENDL-3.2	1231	0.3833-01	0.3397-01	0.1718-01	0.2124-04	0.3218-03
	n,p	JENDL-3.2	1231				0.3265-01	0.2982-04
	n,a	JENDL-3.2	1231				0.8403-01	0.2424-03
13-Al- 27	Total	JEF-2.2	1325	1.658	1.640	23.47	1.744	3.380
		ENDF/B-VI	1325	1.620	1.611	23.86	1.745	3.201
		JENDL-3.2	1325	1.671	1.643	23.58	1.720	3.277
		CENDL-2	2130	1.669	1.644	23.43	1.720	3.291
	Elast.	JEF-2.2	1325	1.444	1.450	23.34	0.6708	3.095
		ENDF/B-VI	1325	1.374	1.377	23.68	0.6514	2.915
		JENDL-3.2	1325	1.440	1.440	23.46	0.7982	2.988
		CENDL-2	2130	1.437	1.437	23.29	0.6835	3.003
	Inel.	JEF-2.2	1325				0.8402	0.2792
		ENDF/B-VI	1325				0.8394	0.2792
		JENDL-3.2	1325				0.4337	0.2830
		CENDL-2	2130				0.3165	0.2814
	n,2n	JEF-2.2	1325				0.5900-02	0.4095-05
		ENDF/B-VI	1325				0.2400-01	0.1653-04
		JENDL-3.2	1325				0.5583-02	0.9760-05
CENDL-2		2130				0.1699-04	0.1641-05	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
13-Al-27	n,g	JEF-2.2	1325	0.2132	0.1889	0.1286	0.4996-03	0.3958-03	
		ENDF/B-VI	1325	0.2335	0.2067	0.1299	0.4996-03	0.3108-03	
		JENDL-3.2	1325	0.2304	0.2027	0.1187	0.2532-03	0.6792-03	
		CENDL-2	2130	0.2323	0.2060	0.1296	0.4996-03	0.3108-03	
	n,p	JEF-2.2	1325				0.8700-01	0.4316-02	
		ENDF/B-VI	1325				0.7770-01	0.4528-02	
		JENDL-3.2	1325				0.7796-01	0.4565-02	
		CENDL-2	2130				0.7777-01	0.4528-02	
	n,d	JEF-2.2	1325				0.1380-01	0.2322-04	
		ENDF/B-VI	1325				0.2630-01	0.2024-04	
		CENDL-2	2130				0.2518-01	0.4172-04	
	n,t	JEF-2.2	1325				0.2250-02	0.6502-06	
		ENDF/B-VI	1325				0.9312-05	0.2611-06	
		CENDL-2	2130				0.9832-03	0.3347-06	
	n,He3	CENDL-2	2130					0.1039-09	
	n,a	JEF-2.2	1325				0.1247	0.8994-03	
		ENDF/B-VI	1325				0.1247	0.8994-03	
		JENDL-3.2	1325				0.1222	0.8615-03	
		CENDL-2	2130				0.1247	0.8994-03	
	14-Si-0	Total	JEF-2.2	1400	2.266	2.256	23.03	1.814	3.414
			ENDF/B-VI	1400	2.248	2.231	25.47	1.814	3.093
JENDL-3.2			1400	2.383	2.364	26.60	1.752	3.183	
BROND-2			1402	2.364	2.346	26.74	1.882	3.496	
CENDL-2			2140	2.485	2.448	26.41	1.879	3.098	
Elast.		JEF-2.2	1400	2.095	2.102	22.95	0.6502	3.186	
		ENDF/B-VI	1400	2.080	2.085	25.37	0.7344	2.870	
		JENDL-3.2	1400	2.211	2.211	26.50	0.7571	2.970	
		BROND-2	1402	2.203	2.204	26.64	0.4890	3.263	
		CENDL-2	2140	2.318	2.298	26.33	0.8271	2.883	
Inel.		JEF-2.2	1400				0.5276	0.2158	
		ENDF/B-VI	1400				0.5242	0.2103	
		JENDL-3.2	1400				0.4347	0.2023	
		BROND-2	1402				0.5500	0.2196	
		CENDL-2	2140				0.5037	0.2001	
n,2n		JEF-2.2	1400				0.4663-01	0.4617-04	
		ENDF/B-VI	1400				0.4663-01	0.4617-04	
		JENDL-3.2	1400				0.3005-01	0.2249-04	
		BROND-2	1402				0.2300-02	0.2180-05	
		CENDL-2	2140				0.3698-01	0.3780-04	
n,3n		CENDL-2	2140					0.5683-13	
n,g		JEF-2.2	1400	0.1718	0.1523	0.8157-01	0.5000-03	0.6446-03	
		ENDF/B-VI	1400	0.1615	0.1428	0.8359-01	0.5000-03	0.1089-02	
		JENDL-3.2	1400	0.1713	0.1518	0.1003	0.6808-03	0.5656-03	
		BROND-2	1402	0.1598	0.1416	0.9475-01	0.4200-03	0.4340-03	
		CENDL-2	2140	0.1667	0.1496	0.8394-01	0.5014-03	0.6813-03	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)					
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.				
14-Si- 0	n,p	JEF-2.2	1400				0.2700	0.8038-02				
		ENDF/B-VI	1400				0.2333	0.7945-02				
		JENDL-3.2	1400				0.2378	0.6571-02				
		BROND-2	1402				0.3000	0.6697-02				
		CENDL-2	2140				0.2220	0.9879-02				
	n,d	JEF-2.2	1400				0.1367	0.5426-04				
		ENDF/B-VI	1400				0.1888-01	0.9829-05				
		BROND-2	1402				0.1424	0.6634-04				
		CENDL-2	2140				0.1533-01	0.7808-05				
	n,t	BROND-2	1402				0.2388-04	0.1076-07				
		CENDL-2	2140				0.5072-05	0.8492-08				
	n,He3	BROND-2	1402				0.7000-05	0.2317-08				
		CENDL-2	2140				0.1193-07	0.1051-07				
	n,a	JEF-2.2	1400				0.9700-01	0.3566-02				
		ENDF/B-VI	1400				0.1711	0.3593-02				
		JENDL-3.2	1400				0.2137	0.3159-02				
		BROND-2	1402				0.1411	0.5366-02				
		CENDL-2	2140				0.2077	0.4521-02				
	14-Si- 28	Total	JENDL-3.2				1425	2.364	2.344	26.20	1.751	3.287
		Elast.	JENDL-3.2				1425	2.187	2.187	26.12	0.7582	3.080
Incl.		JENDL-3.2	1425				0.4355	0.1970				
n,2n		JENDL-3.2	1425					0.5188-08				
n,g		JENDL-3.2	1425	0.1768	0.1567	0.8180-01	0.7055-03	0.5748-03				
n,p		JENDL-3.2	1425				0.2516	0.6958-02				
n,a		JENDL-3.2	1425				0.2215	0.3099-02				
14-Si- 29	Total	JENDL-3.2	1428	2.994	2.983	33.62	1.757	3.687				
	Elast.	JENDL-3.2	1428	2.892	2.892	33.55	0.7707	3.369				
	Incl.	JENDL-3.2	1428				0.3118	0.3067				
	n,2n	JENDL-3.2	1428				0.4073	0.3914-03				
	n,g	JENDL-3.2	1428	0.1015	0.9014-01	0.6465-01	0.3251-03	0.3118-03				
	n,p	JENDL-3.2	1428				0.1077	0.3266-02				
	n,a	JENDL-3.2	1428			0.1224-10	0.1582	0.6321-02				

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
14-Si- 30	Total	JENDL-3.2	1431	2.642	2.631	35.37	1.781	3.594
	Elast.	JENDL-3.2	1431	2.533	2.533	34.66	0.7375	3.417
	Inel.	JENDL-3.2	1431				0.5963	0.1752
	n,2n	JENDL-3.2	1431				0.3557	0.1356-03
	n,g	JENDL-3.2	1431	0.1078	0.9605-01	0.7042	0.4817-03	0.6785-03
	n,p	JENDL-3.2	1431				0.2142-01	0.2511-04
	n,a	JENDL-3.2	1431				0.6791-01	0.1822-03
15-P - 31	Total	JEF-2.2	1525	3.352	3.334	37.22	1.808	4.174
		ENDF/B-VI	1525	4.384	4.354	51.26	1.873	2.972
		JENDL-3.2	1525	3.352	3.333	37.20	1.832	2.882
		BROND-2	1531	3.498	3.479	38.40	1.884	2.968
		CENDL-2	2150	3.361	3.342	37.39	1.887	3.174
	Elast.	JEF-2.2	1525	3.188	3.186	37.14	1.087	3.840
		ENDF/B-VI	1525	4.187	4.180	51.09	0.9650	2.641
		JENDL-3.2	1525	3.185	3.185	37.12	1.111	2.549
		BROND-2	1531	3.319	3.318	38.31	0.8504	2.762
		CENDL-2	2150	3.183	3.182	37.33	0.7759	2.853
	Inel.	JEF-2.2	1525				0.5391-01	0.2922
		ENDF/B-VI	1525				0.6000	0.2917
		JENDL-3.2	1525				0.5391-01	0.2922
		BROND-2	1531				0.7148	0.1684
		CENDL-2	2150				0.7017	0.2858
	n,2n	JEF-2.2	1525				0.1604-01	0.5048-05
		ENDF/B-VI	1525				0.9000-02	0.4071-05
		JENDL-3.2	1525				0.1604-01	0.5048-05
		BROND-2	1531				0.9000-02	0.4071-05
		CENDL-2	2150				0.4167-02	0.2851-05
	n,g	JEF-2.2	1525	0.1664	0.1474	0.7569-01	0.9895-05	0.1012-02
		ENDF/B-VI	1525	0.1995	0.1752	0.1452	0.3000-03	0.1473-02
		JENDL-3.2	1525	0.1663	0.1473	0.7567-01	0.9895-05	0.1012-02
		BROND-2	1531	0.1812	0.1606	0.8302-01	0.3000-03	0.1205-02
		CENDL-2	2150	0.1782	0.1606	0.6071-01	0.1849-03	0.1423-02
	n,p	JEF-2.2	1525				0.1421	0.3648-01
		ENDF/B-VI	1525				0.9000-01	0.3332-01
		JENDL-3.2	1525				0.1421	0.3648-01
		BROND-2	1531				0.9000-01	0.3332-01
		CENDL-2	2150				0.8782-01	0.3184-01
	n,d	CENDL-2	2150				0.2099-01	0.6036-04
	n,t	CENDL-2	2150				0.2406-02	0.9058-06
n,He3	CENDL-2	2150					0.5648-08	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
15-P - 31	n,a	JEF-2.2	1525				0.1212	0.2784-02	
		ENDF/B-VI	1525				0.1200	0.2348-02	
		JENDL-3.2	1525				0.1212	0.2784-02	
		BROND-2	1531				0.1200	0.2348-02	
		CENDL-2	2150				0.1269	0.2209-02	
16-S - 0	Total	ENDF/B-VI	1600	1.527	1.470	12.44	1.838	2.677	
		JENDL-3.2	1600	1.563	1.504	12.91	1.739	2.724	
		CENDL-2	2160	1.525	1.466	12.57	1.886	2.705	
	Elast.	ENDF/B-VI	1600	0.9983	0.9984	12.10	0.7092	2.384	
		JENDL-3.2	1600	1.041	1.040	12.57	0.7624	2.485	
		CENDL-2	2160	1.012	1.012	12.34	0.8243	2.463	
	Inel.	ENDF/B-VI	1600				0.3789	0.1648	
		JENDL-3.2	1600				0.4055	0.9653-01	
		CENDL-2	2160				0.4863	0.1136	
	n,2n	ENDF/B-VI	1600				0.3734-02	0.1756-05	
		JENDL-3.2	1600				0.1196-01	0.5519-05	
		CENDL-2	2160				0.7917-02	0.2350-05	
	n,g	ENDF/B-VI	1600	0.5226	0.4631	0.2376	0.3881-03	0.1200-02	
		JENDL-3.2	1600	0.5142	0.4557	0.2379	0.3234-05	0.5698-03	
		CENDL-2	2160	0.5117	0.4534	0.2368	0.5888-04	0.8433-03	
	n,p	ENDF/B-VI	1600	0.1500-04	0.1345-04	0.1878-03	0.2450	0.6701-01	
		JENDL-3.2	1600	0.1228-04	0.1228-04	0.1476-03	0.2473	0.6622-01	
		CENDL-2	2160				0.2445	0.6557-01	
	n,d	ENDF/B-VI	1600				0.3396-01	0.3287-04	
		CENDL-2	2160				0.1169-01	0.1622-04	
	n,t	ENDF/B-VI	1600				0.6202-05	0.3043-07	
		CENDL-2	2160				0.1074-05	0.2965-07	
	n,He3	CENDL-2	2160				0.5374-03	0.2054-06	
	n,a	ENDF/B-VI	1600	0.8078-02	0.7240-02	0.9866-01	0.2365	0.5926-01	
		JENDL-3.2	1600	0.8041-02	0.8040-02	0.9663-01	0.1553	0.7587-01	
		CENDL-2	2160				0.8660-01	0.6216-01	
	16-S - 32	Total	JEF-2.2	1625	1.516	1.455	12.26	2.025	2.819
			ENDF/B-VI	1625	1.721	1.660	14.12	1.958	2.728
			JENDL-3.2	1625	1.514	1.454	12.25	1.737	2.775
		Elast.	JEF-2.2	1625	0.9794	0.9791	11.92	1.077	2.572
ENDF/B-VI			1625	1.223	1.217	13.26	1.020	2.489	
JENDL-3.2			1625	0.9787	0.9786	11.92	0.7638	2.533	
Inel.		JEF-2.2	1625				0.3760	0.9773-01	
		ENDF/B-VI	1625				0.5000	0.1186	
		JENDL-3.2	1625				0.4026	0.9482-01	

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
16-S - 32	n,2n	JEF-2.2	1625				0.1800-07		
		ENDF/B-VI	1625				0.2021-07		
		JENDL-3.2	1625				0.1800-07		
	n,g	JEF-2.2	1625	0.5287	0.4685	0.2447	0.3234-05	0.5910-03	
		ENDF/B-VI	1625	0.4932	0.4405	0.8101	0.3842-04	0.1861-03	
		JENDL-3.2	1625	0.5284	0.4683	0.2446	0.3234-05	0.5910-03	
	n,p	JEF-2.2	1625				0.2540	0.6921-01	
		ENDF/B-VI	1625				0.2517	0.6584-01	
		JENDL-3.2	1625				0.2540	0.6921-01	
	n,t	ENDF/B-VI	1625				0.6400-05	0.2857-07	
	n,a	JEF-2.2	1625	0.7116-02	0.7113-02	0.8548-01	0.1596	0.7822-01	
		ENDF/B-VI	1625	0.3000-02	0.3000-02	0.3677-01	0.1100	0.5383-01	
		JENDL-3.2	1625	0.7111-02	0.7110-02	0.8545-01	0.1596	0.7822-01	
	16-S - 33	Total	JEF-2.2	1628	3.411	3.372	34.48	2.017	4.163
			JENDL-3.2	1628	3.411	3.372	34.46	1.762	2.710
Elast.		JEF-2.2	1628	2.890	2.889	32.23	1.280	3.686	
		JENDL-3.2	1628	2.888	2.888	32.22	0.7279	2.324	
Inel.		JEF-2.2	1628				0.6843-01	0.2337	
		JENDL-3.2	1628				0.3659	0.1439	
n,2n		JEF-2.2	1628				0.1611	0.2969-03	
		JENDL-3.2	1628				0.1611	0.2969-03	
n,g		JEF-2.2	1628	0.3504	0.3105	0.1631	0.7146-06	0.2057-03	
		JENDL-3.2	1628	0.3502	0.3104	0.1631	0.7153-06	0.2057-03	
n,p		JEF-2.2	1628	0.1638-02	0.1637-02	0.1968-01	0.2140	0.5651-01	
		JENDL-3.2	1628	0.1637-02	0.1637-02	0.1968-01	0.2140	0.5651-01	
n,a		JEF-2.2	1628	0.1713	0.1713	2.059	0.1365	0.1856	
		JENDL-3.2	1628	0.1712	0.1712	2.058	0.1365	0.1856	
16-S - 34		Total	JEF-2.2	1631	2.333	2.307	23.92	2.010	3.991
	JENDL-3.2		1631	2.332	2.307	23.90	1.780	2.647	
	Elast.	JEF-2.2	1631	2.110	2.109	23.82	1.266	3.791	
		JENDL-3.2	1631	2.108	2.108	23.80	0.7480	2.516	
	Inel.	JEF-2.2	1631				0.1897	0.1947	
		JENDL-3.2	1631				0.4770	0.1268	
	n,2n	JEF-2.2	1631				0.2528	0.7605-04	
		JENDL-3.2	1631				0.2528	0.7605-04	
	n,g	JEF-2.2	1631	0.2238	0.1983	0.9903-01	0.3664-05	0.2772-03	
		JENDL-3.2	1631	0.2237	0.1983	0.9900-01	0.3667-05	0.2772-03	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
16-S - 34	n,p	JEF-2.2	1631				0.1043	0.9470-03
		JENDL-3.2	1631				0.1043	0.9470-03
	n,a	JEF-2.2	1631				0.6042-01	0.3632-02
		JENDL-3.2	1631				0.6042-01	0.3632-02
16-S - 36	Total	JEF-2.2	1637	1.181	1.195	14.20	2.021	4.099
		JENDL-3.2	1637	2.367	2.352	26.80	1.825	2.645
	Elast.	JEF-2.2	1637	1.015	1.015	13.63	1.265	3.998
		JENDL-3.2	1637	2.215	2.215	26.67	0.7896	2.566
	Inel.	JEF-2.2	1637				0.1954	0.9969-01
		JENDL-3.2	1637				0.4775	0.7861-01
	n,2n	JEF-2.2	1637				0.5401	0.4143-03
		JENDL-3.2	1637				0.5401	0.4143-03
	n,g	JEF-2.2	1637	0.1507	0.1353	0.1200	0.1365-05	0.2495-03
		JENDL-3.2	1637	0.1506	0.1353	0.1200	0.1365-05	0.2495-03
	n,p	JEF-2.2	1637				0.1452-02	0.8579-06
		JENDL-3.2	1637				0.1452-02	0.8579-06
	n,a	JEF-2.2	1637				0.8735-02	0.6910-04
		JENDL-3.2	1637				0.8735-02	0.6910-04
17-Cl- 0	Total	JEF-2.2	1700	50.19	46.63	107.9	2.101	2.643
		ENDF/B-VI	1700	50.21	46.64	108.1	2.104	2.645
		BROND-2	1700	50.39	48.36	108.4	2.100	2.644
	Elast.	JEF-2.2	1700	16.75	16.70	93.77	1.034	2.347
		ENDF/B-VI	1700	16.78	16.76	93.77	1.034	2.347
		BROND-2	1700	16.75	16.70	94.18	0.9223	2.346
	Inel.	JEF-2.2	1700				0.8200	0.2549
		ENDF/B-VI	1700				0.8200	0.2559
		BROND-2	1700				0.9320	0.2573
	n,2n	JEF-2.2	1700				0.2200-01	0.4605-05
		ENDF/B-VI	1700				0.2200-01	0.5042-05
		BROND-2	1700				0.2200-01	0.4578-05
	n,g	JEF-2.2	1700	33.07	29.51	13.83	0.1000-04	0.1224-03
		ENDF/B-VI	1700	33.15	29.58	13.86	0.1000-04	0.1224-03
		BROND-2	1700	33.07	29.51	13.83	0.1000-04	0.1224-03
	n,p	JEF-2.2	1700	0.3554	0.3149	0.2180	0.9808-01	0.2682-01
		ENDF/B-VI	1700	0.3550	0.3150	0.2181	0.9800-01	0.2682-01
		BROND-2	1700	0.3554	0.3149	0.2180	0.9808-01	0.2682-01
	n,a	JEF-2.2	1700	0.1335-16	0.2376-16	0.1355-10	0.8950-01	0.1375-01
		ENDF/B-VI	1700				0.8950-01	0.1376-01
		BROND-2	1700	0.1015-09	0.1015-09	0.1221-08	0.8950-01	0.1375-01

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
17-Cl- 35	Total	JENDL-3.2	1725	65.02	60.00	133.6	2.025	2.723
	Elast.	JENDL-3.2	1725	20.90	20.89	115.3	0.9097	2.462
	Inel.	JENDL-3.2	1725				0.2737	0.1071
	n,2n	JENDL-3.2	1725				0.2820-02	0.2352-05
	n,g	JENDL-3.2	1725	43.63	38.65	17.81	0.3494-03	0.1081-02
	n,p	JENDL-3.2	1725	0.4909	0.4349	0.4661	0.1371	0.9491-01
	n,d	JENDL-3.2	1725				0.1136-01	0.3397-04
	n,t	JENDL-3.2	1725				0.1513-02	0.8814-06
	n,He3	JENDL-3.2	1725				0.1437-04	0.7476-08
	n,a	JENDL-3.2	1725	0.8005-04	0.7095-04	0.3596-04	0.1373	0.5667-01
18-Ar- 36	Total	JEF-2.2	1825	79.71	79.17	668.5	1.888	2.864
	Elast.	JEF-2.2	1825	74.60	74.63	666.3	0.7883	2.517
	Inel.	JEF-2.2	1825				0.6948-01	0.1036
	n,2n	JEF-2.2	1825					0.8520-07
	n,g	JEF-2.2	1825	5.046	4.543	2.260	0.4380-03	0.3417-02
	n,p	JEF-2.2	1825				0.3619	0.1505
	n,d	JEF-2.2	1825				0.3416-01	0.2117-03
	n,a	JEF-2.2	1825				0.1558	0.8647-01
18-Ar- 38	Total	JEF-2.2	1831	9.744	9.684	78.84	1.944	2.756
	Elast.	JEF-2.2	1831	8.945	8.944	78.47	0.8321	2.552
	Inel.	JEF-2.2	1831				0.2983	0.1944
	n,2n	JEF-2.2	1831				0.2339	0.7231-04
	n,g	JEF-2.2	1831	0.8024	0.7397	0.3528	0.1364-03	0.7899-03
	n,p	JEF-2.2	1831				0.8341-01	0.1453-02
	n,d	JEF-2.2	1831				0.1147-01	0.2310-04
	n,a	JEF-2.2	1831				0.2492-01	0.6444-02

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
18-Ar-40	Total	JEF-2.2	1837	0.9643	0.8878	7.027	2.016	2.717
		JENDL-3.2	1837	1.316	1.241	10.69	2.291	2.972
	Elast.	JEF-2.2	1837	0.2834	0.2834	6.707	0.8808	2.323
		JENDL-3.2	1837	0.6552	0.6552	10.40	0.7880	2.552
	Inel.	JEF-2.2	1837				0.3445	0.3937
		JENDL-3.2	1837				0.6362	0.4175
	n,2n	JEF-2.2	1837				0.7482	0.4608-03
		JENDL-3.2	1837				0.8357	0.5326-03
	n,3n	JEF-2.2	1837					0.3247-06
		JENDL-3.2	1837					0.1930-06
	n,g	JEF-2.2	1837	0.6807	0.6044	0.3187	0.2270-03	0.9126-03
		ENDF/B-VI	1837	0.6646	0.5879	0.3049	0.1700-03	0.8713-03
		JENDL-3.2	1837	0.6604	0.5852	0.2882	0.3465-03	0.1017-02
	n,p	JEF-2.2	1837				0.1486-01	0.1635-04
		JENDL-3.2	1837				0.1499-01	0.2867-04
n,d	JEF-2.2	1837				0.1320-02	0.8281-06	
	JENDL-3.2	1837				0.1949-02	0.7727-06	
n,t	JENDL-3.2	1837				0.3541-06	0.4964-08	
n,He3	JENDL-3.2	1837					0.1111-11	
n,a	JEF-2.2	1837				0.1172-01	0.1205-03	
	JENDL-3.2	1837				0.1108-01	0.2457-03	
19-K-0	Total	JEF-2.2	1900	4.390	4.129	27.86	2.047	2.753
		ENDF/B-VI	1900	4.394	4.142	27.92	2.052	2.754
		JENDL-3.2	1900	4.187	3.953	23.65	2.017	2.801
		CENDL-2	2190	4.290	4.156	32.18	2.063	2.765
	Elast.	JEF-2.2	1900	2.228	2.204	26.61	0.9655	2.541
		ENDF/B-VI	1900	2.237	2.208	26.64	0.9670	2.542
		JENDL-3.2	1900	2.123	2.123	22.54	0.9591	2.582
		CENDL-2	2190	2.231	2.239	31.08	1.033	2.542
	Inel.	JEF-2.2	1900				0.3993	0.1074
		ENDF/B-VI	1900				0.3993	0.1074
		JENDL-3.2	1900			0.3334-04	0.1494	0.7222-01
		CENDL-2	2190				0.1907	0.1163
	n,2n	JEF-2.2	1900				0.2600-02	0.1362-05
		ENDF/B-VI	1900				0.2600-02	0.1362-05
		JENDL-3.2	1900				0.3929-02	0.2692-05
		CENDL-2	2190				0.3049-01	0.1697-04
	n,3n	CENDL-2	2190					0.3235-09

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
19-K - 0	n,g	JEF-2.2	1900	2.103	1.863	1.207	0.3573-04	0.7004-03	
		ENDF/B-VI	1900	2.113	1.868	1.210	0.3586-04	0.7021-03	
		JENDL-3.2	1900	2.059	1.825	1.102	0.8091-05	0.2913-02	
		CENDL-2	2190	2.001	1.863	1.069	0.8348-04	0.1863-02	
	n,p	JEF-2.2	1900	0.5106-01	0.4524-01	0.2292-01	0.3637	0.8105-01	
		ENDF/B-VI	1900	0.5100-01	0.5099-01	0.2290-01	0.3640	0.8104-01	
		JENDL-3.2	1900	0.5133-03	0.4502-03	0.1505-03	0.3626	0.1042	
		CENDL-2	2190	0.5284-01	0.4913-01	0.2543-01	0.1290	0.8201-01	
	n,d	CENDL-2	2190				0.1205-01	0.7325-04	
	n,t	CENDL-2	2190				0.1428-03	0.6576-07	
	n,He3	CENDL-2	2190				0.1162-03	0.4302-07	
	n,a	JEF-2.2	1900	0.4606-02	0.4080-02	0.2067-02	0.1118	0.2254-01	
		ENDF/B-VI	1900	0.4600-02	0.4599-02	0.2065-02	0.1118	0.2255-01	
		JENDL-3.2	1900	0.4060-02	0.3658-02	0.4814-02	0.2411	0.3878-01	
		CENDL-2	2190	0.4145-02	0.3855-02	0.1995-02	0.8015-01	0.2109-01	
	19-K - 39	Total	JENDL-3.2	1925	4.192	3.954	22.73	2.012	2.796
		Elast.	JENDL-3.2	1925	2.089	2.089	21.65	0.9553	2.586
		Inel.	JENDL-3.2	1925				0.1028	0.5269-01
n,2n		JENDL-3.2	1925				0.1631-02	0.1257-05	
n,g		JENDL-3.2	1925	2.099	1.860	1.068	0.7419-05	0.2693-02	
n,p		JENDL-3.2	1925				0.3853	0.1109	
n,a		JENDL-3.2	1925	0.4305-02	0.3876-02	0.5054-02	0.2564	0.4150-01	
19-K - 40	Total	JENDL-3.2	1928	37.80	33.79	49.49	2.046	2.846	
	Elast.	JENDL-3.2	1928	2.786	2.786	33.58	0.9774	2.299	
	Inel.	JENDL-3.2	1928			0.2851	0.2899	0.4090	
	n,2n	JENDL-3.2	1928				0.2255	0.7584-03	
	n,g	JENDL-3.2	1928	30.02	26.60	13.45	0.4123-05	0.1582-02	
	n,p	JENDL-3.2	1928	4.387	3.848	1.286	0.1085	0.2719-01	
	n,a	JENDL-3.2	1928	0.3920	0.3622	0.8070	0.1424	0.1084	
19-K - 41	Total	JENDL-3.2	1931	4.058	3.892	36.36	2.084	2.865	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
19-K - 41	Elast.	JENDL-3.2	1931	2.598	2.598	34.81	1.001	2.514
	Inel.	JENDL-3.2	1931				0.7942	0.3423
	n,2n	JENDL-3.2	1931				0.3538-01	0.2131-04
	n,g	JENDL-3.2	1931	1.460	1.294	1.549	0.1739-04	0.5949-02
	n,p	ENDF/B-VI JENDL-3.2	1931 1931				0.8560-01 0.4816-01	0.1860-02 0.2110-02
	n,a	JENDL-3.2	1931				0.2967-01	0.9962-03
20-Ca- 0	Total	JEF-2.2	2000	3.468	3.422	30.17	2.150	2.799
		ENDF/B-VI	2000	3.488	3.454	32.63	2.149	2.800
		JENDL-3.2	2000	3.494	3.444	33.24	2.160	2.885
		CENDL-2	2200	4.782	5.555	33.69	2.243	2.737
	Elast.	JEF-2.2	2000	3.025	3.026	29.93	0.8758	2.597
		ENDF/B-VI	2000	3.042	3.037	32.37	0.9154	2.594
		JENDL-3.2	2000	3.057	3.057	33.02	1.010	2.661
		CENDL-2	2200	2.950	2.927	33.33	0.9476	2.525
	Inel.	JEF-2.2	2000				0.2434	0.4846-01
		ENDF/B-VI	2000				0.2811	0.4849-01
		JENDL-3.2	2000				0.2704	0.5883-01
		CENDL-2	2200				0.1368	0.5022-01
	n,2n	JEF-2.2	2000				0.1700-02	0.1148-05
		ENDF/B-VI	2000				0.1700-02	0.1527-05
		JENDL-3.2	2000				0.1708-01	0.7613-05
		CENDL-2	2200				0.1343-01	0.4473-05
	n,3n	JENDL-3.2	2000					0.1212-09
		CENDL-2	2200					0.3368-11
	n,g	JEF-2.2	2000	0.4305	0.3815	0.2194	0.1343-04	0.3699-03
		ENDF/B-VI	2000	0.4327	0.3826	0.2156	0.5143-03	0.6048-03
		JENDL-3.2	2000	0.4360	0.3864	0.2188	0.4847-03	0.1207-02
		CENDL-2	2200	1.828	2.626	0.3543	0.5331-03	0.9739-02
	n,p	JEF-2.2	2000				0.2150	0.1107
		ENDF/B-VI	2000				0.2030	0.1103
		JENDL-3.2	2000				0.2101	0.1155
		CENDL-2	2200				0.3509	0.1093
	n,d	JEF-2.2	2000				0.1800-01	0.4917-04
		ENDF/B-VI	2000				0.1800-01	0.4916-04
		CENDL-2	2200				0.5561-02	0.1357-04
	n,t	JEF-2.2	2000				0.4266-05	0.2868-06
		ENDF/B-VI	2000				0.4266-05	0.2868-06
		CENDL-2	2200				0.1000-13	0.5243-05

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
20-Ca- 0	n,He3	JEF-2.2	2000				0.7300-02	0.3270-05
		ENDF/B-VI	2000				0.7300-02	0.3270-05
		CENDL-2	2200				0.7897-04	0.4297-07
	n,a	JEF-2.2	2000	0.2375-02	0.2279-02	0.3055-01	0.1400	0.4603-01
		ENDF/B-VI	2000	0.2500-02	0.2241-02	0.3055-01	0.1440	0.4613-01
		JENDL-3.2	2000				0.1363	0.4778-01
	CENDL-2	2200	0.9483-14	0.9108-14	0.8349-06	0.1105	0.4288-01	
20-Ca- 40	Total	JENDL-3.2	2025	3.468	3.422	33.15	2.160	2.963
	Elast.	JENDL-3.2	2025	3.060	3.060	32.94	1.015	2.748
	Incl.	JENDL-3.2	2025				0.2613	0.4485-01
	n,2n	JENDL-3.2	2025					0.3348-06
	n,g	JENDL-3.2	2025	0.4077	0.3613	0.2054	0.5000-03	0.1202-02
	n,p	JENDL-3.2	2025				0.2143	0.1190
	n,a	JENDL-3.2	2025				0.1396	0.4924-01
20-Ca- 42	Total	JENDL-3.2	2031	1.920	1.842	15.66	2.352	3.721
	Elast.	JENDL-3.2	2031	1.237	1.237	15.30	1.061	3.276
	Incl.	JENDL-3.2	2031				0.4804	0.4302
	n,2n	JENDL-3.2	2031				0.2874	0.8749-04
	n,g	JENDL-3.2	2031	0.6833	0.6056	0.3626	0.9662-06	0.2588-02
	n,p	JENDL-3.2	2031				0.2072	0.9938-02
	n,a	JENDL-3.2	2031				0.4267-01	0.2857-02
20-Ca- 43	Total	JENDL-3.2	2034	15.88	14.55	137.2	2.396	3.769
	Elast.	JENDL-3.2	2034	4.210	4.209	131.4	1.175	3.041
	Incl.	JENDL-3.2	2034				0.2625	0.6883
	n,2n	JENDL-3.2	2034				0.7980	0.9791-03
	n,3n	JENDL-3.2	2034					0.2437-10
	n,g	JENDL-3.2	2034	11.67	10.34	5.766	0.1779-06	0.2248-02
	n,p	JENDL-3.2	2034				0.9651-01	0.2674-01

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
20-Ca- 43	n,a	JENDL-3.2	2034				0.2585-01	0.9565-02
20-Ca- 44	Total	JENDL-3.2	2037	4.247	4.147	35.81	2.342	3.336
	Elast.	JENDL-3.2	2037	3.358	3.358	35.39	1.031	2.786
	Inel.	JENDL-3.2	2037				0.6241	0.5485
	n,2n	JENDL-3.2	2037				0.6107	0.2157-03
	n,3n	JENDL-3.2	2037					0.7282-10
	n,g	JENDL-3.2	2037	0.8888	0.7877	0.4186	0.7867-06	0.1050-02
	n,p	JENDL-3.2	2037				0.4232-01	0.9631-04
	n,a	JENDL-3.2	2037				0.3036-01	0.2711-03
20-Ca- 46	Total	JENDL-3.2	2043	3.686	3.602	156.6	2.527	3.942
	Elast.	JENDL-3.2	2043	2.932	2.932	156.1	1.241	3.502
	Inel.	JENDL-3.2	2043				0.4188	0.4389
	n,2n	JENDL-3.2	2043				0.8566	0.4106-03
	n,3n	JENDL-3.2	2043					0.1989-07
	n,g	JENDL-3.2	2043	0.7405	0.6563	0.3384	0.8966-06	0.1743-03
	n,p	JENDL-3.2	2043				0.6600-02	0.4178-05
	n,a	JENDL-3.2	2043				0.4000-02	0.7856-04
20-Ca- 48	Total	JENDL-3.2	2049	4.849	4.726	40.33	2.615	3.602
	Elast.	JENDL-3.2	2049	3.756	3.756	39.85	1.511	3.506
	Inel.	JENDL-3.2	2049				0.3479	0.9510-01
	n,2n	JENDL-3.2	2049				0.7527	0.4828-03
	n,3n	JENDL-3.2	2049					0.6366-07
	n,g	JENDL-3.2	2049	1.093	0.9689	0.4837	0.1787-05	0.1882-03
	n,p	JENDL-3.2	2049				0.1670-02	0.1038-05
	n,a	JENDL-3.2	2049					0.7993-08

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
21-Sc- 45	Total	ENDF/B-VI	2125	49.81	46.79	237.4	2.200	3.376
		JENDL-3.2	2125	49.89	46.81	233.1	2.175	3.352
	Elast.	ENDF/B-VI	2125	22.51	22.54	225.3	0.9224	2.653
		JENDL-3.2	2125	22.74	22.73	221.2	1.159	2.695
	Inel.	ENDF/B-VI	2125			0.2323-01	0.4126	0.6939
		JENDL-3.2	2125			0.2619-01	0.6632	0.6221
	n,2n	ENDF/B-VI	2125				0.2400	0.7833-04
		JENDL-3.2	2125				0.2400	0.7834-04
	n,g	ENDF/B-VI	2125	27.30	24.25	12.09	0.2360-03	0.5202-02
		JENDL-3.2	2125	27.15	24.06	11.79	0.1045-02	0.6346-02
	n,p	ENDF/B-VI	2125	0.2287-09	0.4574-09	0.9042-03	0.6000-01	0.2247-01
		JENDL-3.2	2125				0.5900-01	0.2544-01
	n,d	ENDF/B-VI	2125				0.8400-02	0.9434-05
	n,t	ENDF/B-VI	2125				0.2700-03	0.1112-06
n,He3	ENDF/B-VI	2125				0.2900-09	0.2477-09	
n,a	ENDF/B-VI	2125				0.4400-01	0.5123-03	
	JENDL-3.2	2125				0.5350-01	0.2522-02	
22-Ti- 0	Total	JEF-2.2	2200	10.58	9.874	138.7	2.352	3.345
		ENDF/B-VI	2200	10.59	9.900	138.9	2.360	3.345
		JENDL-3.2	2200	10.23	9.535	146.6	2.318	3.169
		CENDL-2	2220	10.56	9.860	138.8	2.347	3.441
	Elast.	JEF-2.2	2200	4.446	4.440	136.2	1.161	2.731
		ENDF/B-VI	2200	4.458	4.449	136.3	1.163	2.731
		JENDL-3.2	2200	4.130	4.130	143.7	0.9963	2.543
		CENDL-2	2220	4.450	4.449	135.9	1.127	2.880
	Inel.	JEF-2.2	2200				0.6930	0.6083
		ENDF/B-VI	2200				0.6930	0.6083
		JENDL-3.2	2200				0.7496	0.6188
		CENDL-2	2220				0.7133	0.5546
	n,2n	JEF-2.2	2200				0.3350	0.1426-03
		ENDF/B-VI	2200				0.3350	0.1426-03
		JENDL-3.2	2200				0.4288	0.1921-03
		CENDL-2	2220				0.3794	0.1871-03
	n,3n	JEF-2.2	2200					0.3131-10
		ENDF/B-VI	2200					0.3131-10
		JENDL-3.2	2200					0.1232-10
		CENDL-2	2220					0.1969-10
n,g	JEF-2.2	2200	6.120	5.420	2.432	0.7757-03	0.2392-02	
	ENDF/B-VI	2200	6.149	5.438	2.438	0.7757-03	0.2394-02	
	JENDL-3.2	2200	6.095	5.401	2.897	0.3659-04	0.2789-02	
	CENDL-2	2220	6.107	5.411	2.860	0.2000-03	0.3163-02	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
22-Ti- 0	n,p	JEF-2.2	2200	0.2006-17	0.3893-17	0.7455-11	0.7917-01	0.2894-02
		ENDF/B-VI	2200	0.1885-17	0.3772-17	0.7455-11	0.7924-01	0.2894-02
		JENDL-3.2	2200	0.1661-16	0.3224-16	0.6176-10	0.7602-01	0.3062-02
		CENDL-2	2220		0.1778-21	0.6144-15	0.8233-01	0.2456-02
	n,d	JEF-2.2	2200				0.1664-02	0.1207-05
		ENDF/B-VI	2200				0.1664-02	0.1207-05
		CENDL-2	2220				0.3891-02	0.1742-05
	n,t	JEF-2.2	2200				0.7764-05	0.4014-07
		ENDF/B-VI	2200				0.7764-05	0.4014-07
		CENDL-2	2220				0.4000-04	0.3382-07
	n,He3	JEF-2.2	2200				0.4504-06	0.5615-08
		ENDF/B-VI	2200				0.4504-06	0.5615-08
		CENDL-2	2220				0.2432-07	0.2474-09
	n,a	JEF-2.2	2200				0.2688-01	0.6156-03
		ENDF/B-VI	2200				0.2688-01	0.6156-03
		JENDL-3.2	2200				0.3875-01	0.3754-03
		CENDL-2	2220				0.2785-01	0.4478-04
	22-Ti- 46	Total	JENDL-3.2	2225	3.373	3.306	38.36	2.399
Elast.		JENDL-3.2	2225	2.777	2.777	38.04	0.9626	2.753
Incl.		JENDL-3.2	2225				0.7861	0.6498
n,2n		JENDL-3.2	2225				0.9561-02	0.7639-05
n,g		JENDL-3.2	2225	0.5963	0.5284	0.3218	0.5186-04	0.5036-02
n,p		ENDF/B-VI	2225				0.2600	0.1185-01
		JENDL-3.2	2225				0.2562	0.1215-01
n,a	JENDL-3.2	2225				0.9249-01	0.1044-02	
22-Ti- 47	Total	JENDL-3.2	2228	4.831	4.638	87.37	2.325	3.347
	Elast.	JENDL-3.2	2228	3.129	3.128	85.97	1.407	2.438
	Incl.	JENDL-3.2	2228				0.4154	0.8747
	n,2n	JENDL-3.2	2228				0.2589	0.2147-03
	n,g	JENDL-3.2	2228	1.702	1.509	1.395	0.3558-04	0.6383-02
	n,p	ENDF/B-VI	2228				0.1200	0.2236-01
		JENDL-3.2	2228	0.2278-15	0.4419-15	0.8460-09	0.1357	0.2492-01
n,a	JENDL-3.2	2228				0.7396-01	0.3480-02	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
22-Ti- 48	Total	JENDL-3.2	2231	12.51	11.62	178.1	2.372	3.647
	Elast.	JENDL-3.2	2231	4.660	4.660	174.4	1.036	3.026
	Incl.	JENDL-3.2	2231				0.8124	0.6189
	n,2n	JENDL-3.2	2231				0.4292	0.1308-03
	n,g	JENDL-3.2	2231	7.848	6.955	3.670	0.3760-04	0.2293-02
	n,p	ENDF/B-VI JENDL-3.2	2231 2231				0.6400-01 0.5842-01	0.3482-03 0.3056-03
	n,a	ENDF/B-VI JENDL-3.2	2231 2231				0.1850-01 0.3300-01	0.4805-04 0.3585-04
22-Ti- 49	Total	JENDL-3.2	2234	2.914	2.662	61.81	2.420	3.527
	Elast.	JENDL-3.2	2234	0.6991	0.6991	60.77	1.107	3.041
	Incl.	JENDL-3.2	2234				0.3918	0.4809
	n,2n	JENDL-3.2	2234				0.8643	0.1127-02
	n,g	JENDL-3.2	2234	2.215	1.963	1.034	0.3435-04	0.3644-02
	n,p	JENDL-3.2	2234				0.3493-01	0.8096-03
	n,a	JENDL-3.2	2234				0.2117-01	0.2008-03
22-Ti- 50	Total	JENDL-3.2	2237	3.921	3.901	42.90	2.512	3.634
	Elast.	JENDL-3.2	2237	3.743	3.743	42.82	1.013	3.249
	Incl.	JENDL-3.2	2237				0.6538	0.3846
	n,2n	JENDL-3.2	2237				0.8300	0.3194-03
	n,3n	JENDL-3.2	2237					0.2366-09
	n,g	JENDL-3.2	2237	0.1787	0.1584	0.8345-01	0.3777-05	0.4477-03
	n,p	JENDL-3.2	2237				0.1088-01	0.9246-05
	n,a	ENDF/B-VI JENDL-3.2	2237 2237				0.6800-02 0.1021-02	0.6808-05 0.1966-05
23-V - 0	Total	JEF-2.2	2300	10.14	9.559	227.7	2.321	3.697
		ENDF/B-VI	2300	10.26	9.705	265.1	2.355	3.857
		CENDL-2	2230	10.26	9.684	264.9	2.352	3.860

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
23-V - 0	Elast.	JEF-2.2	2300	5.053	5.052	225.1	1.005	2.939
		ENDF/B-VI	2300	5.233	5.221	262.4	1.104	3.193
		CENDL-2	2230	5.209	5.208	262.2	1.039	3.186
	Inel.	JEF-2.2	2300				0.5633	0.7532
		ENDF/B-VI	2300				0.4094	0.6615
		CENDL-2	2230				0.6037	0.6706
	n,2n	JEF-2.2	2300				0.6350	0.2190-03
		ENDF/B-VI	2300				0.4800	0.1781-03
		CENDL-2	2230				0.5041	0.1741-03
	n,g	JEF-2.2	2300	5.066	4.489	2.527	0.1715-03	0.1649-02
		ENDF/B-VI	2300	5.073	4.484	2.645	0.6400-03	0.1901-02
		CENDL-2	2230	5.051	4.475	2.641	0.6400-03	0.2041-02
	n,p	JEF-2.2	2300				0.3610-01	0.1034-02
		ENDF/B-VI	2300				0.2860-01	0.5872-03
		CENDL-2	2230				0.2809-01	0.5661-03
	n,d	JEF-2.2	2300				0.3020-01	0.6776-04
		ENDF/B-VI	2300				0.5544-02	0.6458-05
		CENDL-2	2230				0.3752-02	0.1989-05
n,t	JEF-2.2	2300				0.1230-01	0.3345-05	
	ENDF/B-VI	2300				0.1140-04	0.9957-08	
	CENDL-2	2230				0.1409-03	0.4232-07	
n,He3	ENDF/B-VI	2300				0.1000-08	0.1844-10	
n,a	JEF-2.2	2300				0.1940-01	0.4101-04	
	ENDF/B-VI	2300				0.1490-01	0.3283-04	
	CENDL-2	2230				0.1531-01	0.3371-04	
23-V - 51	Total	JENDL-3.2	2328	9.786	9.229	222.5	2.350	3.856
	Elast.	JENDL-3.2	2328	4.879	4.879	219.9	1.018	3.182
	Inel.	JENDL-3.2	2328				0.6218	0.6710
	n,2n	JENDL-3.2	2328				0.6040	0.2089-03
	n,g	JENDL-3.2	2328	4.906	4.348	2.537	0.2201-04	0.2184-02
	n,p	JENDL-3.2	2328				0.3100-01	0.6331-03
	n,d	JENDL-3.2	2328				0.4500-02	0.8870-05
	n,t	JENDL-3.2	2328				0.1000-02	0.6107-06
	n,a	JENDL-3.2	2328				0.1560-01	0.4475-04

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
24-Cr- 0	Total	JENDL-3.2	2400	6.486	6.137	64.95	2.461	3.349
		BROND-2	2401	6.450	6.104	68.93	2.425	3.468
		CENDL-2	2240	6.467	6.120	77.21	2.454	3.492
	Elast.	JENDL-3.2	2400	3.412	3.412	63.43	1.243	2.885
		BROND-2	2401	3.417	3.416	67.41	1.107	2.951
		CENDL-2	2240	3.423	3.422	75.70	1.138	2.991
	Inel.	JENDL-3.2	2400				0.7077	0.4572
		BROND-2	2401				0.8357	0.5107
		CENDL-2	2240				0.8047	0.4928
	n,2n	JENDL-3.2	2400				0.3005	0.1647-03
		BROND-2	2401				0.3134	0.1884-03
		CENDL-2	2240				0.3220	0.2194-03
	n,3n	CENDL-2	2240					0.1636-08
	n,g	JENDL-3.2	2400	3.073	2.723	1.514	0.3652-04	0.2515-02
		BROND-2	2401	3.034	2.688	1.502	0.8840-03	0.4211-02
		CENDL-2	2240	3.045	2.698	1.497	0.7730-03	0.4243-02
	n,p	JENDL-3.2	2400				0.8786-01	0.3060-02
		BROND-2	2401				0.8730-01	0.1921-02
		CENDL-2	2240				0.1001	0.3331-02
	n,d	BROND-2	2401				0.1429-01	0.6686-05
		CENDL-2	2240				0.7110-02	0.3054-05
n,t	BROND-2	2401				0.8612-03	0.3556-06	
	CENDL-2	2240				0.5946-05	0.2026-06	
n,He3	BROND-2	2401				0.3498-06	0.1116-07	
	CENDL-2	2240				0.9734-07	0.1071-07	
n,a	JENDL-3.2	2400				0.3545-01	0.1740-03	
	BROND-2	2401				0.3938-01	0.1657-03	
	CENDL-2	2240	0.1161-15	0.2259-15	0.4336-09	0.5026-01	0.2282-03	
24-Cr- 50	Total	JEF-2.2	2425	18.41	16.59	235.2	2.371	3.660
		ENDF/B-VI	2425	18.39	16.59	260.4	2.417	3.669
		JENDL-3.2	2425	18.28	16.46	166.5	2.348	3.651
		BROND-2	2450	18.58	16.76	250.7	2.310	3.357
	Elast.	JEF-2.2	2425	2.441	2.441	227.8	1.056	3.007
		ENDF/B-VI	2425	2.394	2.382	252.9	1.098	2.974
		JENDL-3.2	2425	2.340	2.339	159.2	1.124	3.017
		BROND-2	2450	2.584	2.584	243.2	1.433	2.798
	Inel.	JEF-2.2	2425				0.3610	0.6160
		ENDF/B-VI	2425				0.4502	0.6337
		JENDL-3.2	2425				0.6537	0.5808
		BROND-2	2450				0.3419	0.5270

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
24-Cr- 50	n,2n	JEF-2.2	2425				0.2990-01	0.1401-04	
		ENDF/B-VI	2425				0.8270-02	0.4513-05	
		JENDL-3.2	2425				0.8200-02	0.4392-05	
		BROND-2	2450				0.1000-01	0.4530-05	
	n,g	JEF-2.2	2425	15.97	14.15	7.412	0.4489-03	0.3390-02	
		ENDF/B-VI	2425	15.99	14.21	7.490	0.1080-02	0.4420-02	
		JENDL-3.2	2425	15.93	14.12	7.352	0.1524-03	0.6432-02	
		BROND-2	2450	16.00	14.18	7.485	0.1095-02	0.7680-02	
	n,p	JEF-2.2	2425				0.2233	0.3364-01	
		ENDF/B-VI	2425				0.3432	0.5240-01	
		JENDL-3.2	2425				0.2188	0.4686-01	
		BROND-2	2450				0.1225	0.2149-01	
	n,d	JEF-2.2	2425				0.2050-01	0.6907-05	
		ENDF/B-VI	2425				0.1067-01	0.1170-04	
	n,t	JEF-2.2	2425					0.1826-06	
	n,a	JEF-2.2	2425				0.5480-01	0.7582-03	
		ENDF/B-VI	2425				0.9002-01	0.3855-02	
		JENDL-3.2	2425				0.8183-01	0.7319-03	
		BROND-2	2450	0.4026-10	0.7822-10	0.1500-03	0.1155	0.3451-02	
	24-Cr- 52	Total	JEF-2.2	2431	3.754	3.667	34.35	2.418	3.729
			ENDF/B-VI	2431	3.764	3.673	38.46	2.419	3.479
			JENDL-3.2	2431	3.753	3.667	34.85	2.419	3.694
			BROND-2	2452	3.736	3.653	33.88	2.367	3.375
		Elast.	JEF-2.2	2431	2.991	2.991	33.88	1.082	3.284
ENDF/B-VI			2431	3.016	3.008	38.01	1.064	2.989	
JENDL-3.2			2431	2.988	2.988	34.40	1.029	3.256	
BROND-2			2452	3.010	3.009	33.44	1.182	2.969	
Inel.		JEF-2.2	2431				0.7766	0.4406	
		ENDF/B-VI	2431				0.9327	0.4872	
		JENDL-3.2	2431				0.9191	0.4343	
		BROND-2	2452				0.7832	0.4032	
n,2n		JEF-2.2	2431				0.3397	0.9376-04	
		ENDF/B-VI	2431				0.2600	0.7476-04	
		JENDL-3.2	2431				0.2600	0.6932-04	
		BROND-2	2452				0.2730	0.7190-04	
n,g		JEF-2.2	2431	0.7639	0.6768	0.4718	0.3748-03	0.2163-02	
		ENDF/B-VI	2431	0.7485	0.6650	0.4420	0.7979-03	0.1898-02	
		JENDL-3.2	2431	0.7644	0.6774	0.4487	0.3180-04	0.2402-02	
		BROND-2	2452	0.7272	0.6443	0.4359	0.1065-02	0.3100-02	
n,p		JEF-2.2	2431				0.8848-01	0.1206-02	
		ENDF/B-VI	2431				0.8900-01	0.1204-02	
		JENDL-3.2	2431				0.8822-01	0.1164-02	
		BROND-2	2452				0.9300-01	0.1414-02	
n,d	JEF-2.2	2431				0.6145-02	0.3352-05		

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
24-Cr- 52	n,t	JEF-2.2	2431					0.1362-06	
		n,a	JEF-2.2	2431			0.3155-01	0.1315-03	
		ENDF/B-VI	2431			0.2983-01	0.1568-03		
		JENDL-3.2	2431			0.3274-01	0.7578-04		
		BROND-2	2452			0.3600-01	0.1124-03		
24-Cr- 53	Total	JEF-2.2	2434	26.09	24.01	298.7	2.370	3.946	
		ENDF/B-VI	2434	26.16	24.08	343.3	2.418	3.782	
		JENDL-3.2	2434	26.08	24.01	291.2	2.458	3.881	
		BROND-2	2453	25.74	23.68	304.3	2.390	3.620	
	Elast.	JEF-2.2	2434	7.854	7.852	290.0	1.018	3.265	
		ENDF/B-VI	2434	7.997	7.959	334.8	1.016	2.997	
		JENDL-3.2	2434	7.854	7.852	282.7	1.214	3.201	
		BROND-2	2453	7.635	7.633	295.8	1.403	2.996	
	Incl.	JEF-2.2	2434				0.1637	0.6757	
		ENDF/B-VI	2434				0.4278	0.7804	
		JENDL-3.2	2434				0.4561	0.6772	
		BROND-2	2453				0.2245	0.6145	
	n,2n	JEF-2.2	2434				1.119	0.1990-02	
		ENDF/B-VI	2434				0.9014	0.1451-02	
		JENDL-3.2	2434				0.6983	0.1008-02	
		BROND-2	2453				0.6800	0.1257-02	
	n,g	JEF-2.2	2434	18.24	16.16	8.605	0.3158-03	0.1967-02	
		ENDF/B-VI	2434	18.16	16.12	8.454	0.9394-03	0.2079-02	
		JENDL-3.2	2434	18.22	16.15	8.573	0.2153-04	0.1940-02	
		BROND-2	2453	18.11	16.04	8.501	0.9939-03	0.2200-02	
	n,p	JEF-2.2	2434				0.2975-01	0.5316-03	
		ENDF/B-VI	2434				0.4210-01	0.4562-03	
		JENDL-3.2	2434				0.4361-01	0.5068-03	
		BROND-2	2453				0.3960-01	0.8866-03	
	n,d	JEF-2.2	2434				0.6322-02	0.2830-05	
	n,t	JEF-2.2	2434				0.7233-02	0.2015-05	
	n,a	JEF-2.2	2434				0.2241-01	0.9252-03	
		ENDF/B-VI	2434				0.2651-01	0.9122-03	
		JENDL-3.2	2434				0.4390-01	0.8164-03	
		BROND-2	2453	0.2141-11	0.4165-11	0.8001-05	0.4197-01	0.4235-03	
	24-Cr- 54	Total	JEF-2.2	2437	2.989	2.949	34.26	2.565	3.540
			ENDF/B-VI	2437	2.950	2.903	42.62	2.418	3.674
JENDL-3.2			2437	2.931	2.890	35.02	2.500	3.661	
BROND-2			2454	2.797	2.757	31.22	2.420	3.680	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
24-Cr- 54	Elast.	JEF-2.2	2437	2.623	2.622	34.08	1.212	2.889
		ENDF/B-VI	2437	2.587	2.582	42.43	1.001	2.983
		JENDL-3.2	2437	2.566	2.566	34.85	1.249	2.982
		BROND-2	2454	2.435	2.434	31.03	1.414	3.083
	Inel.	JEF-2.2	2437				0.2846	0.6494
		ENDF/B-VI	2437				0.4643	0.6881
		JENDL-3.2	2437				0.5486	0.6764
		BROND-2	2454				0.1505	0.5962
	n,2n	JEF-2.2	2437				1.038	0.7249-03
		ENDF/B-VI	2437				0.9284	0.6821-03
		JENDL-3.2	2437				0.6761	0.4514-03
		BROND-2	2454				0.8330	0.5671-03
	n,g	JEF-2.2	2437	0.3682	0.3262	0.1812	0.6224-03	0.8060-03
		ENDF/B-VI	2437	0.3623	0.3214	0.1916	0.5454-03	0.1595-02
		JENDL-3.2	2437	0.3646	0.3231	0.1761	0.5106-04	0.1558-02
		BROND-2	2454	0.3643	0.3228	0.1838	0.9936-03	0.2029-02
	n,p	JEF-2.2	2437				0.1352-01	0.1540-04
		ENDF/B-VI	2437				0.1215-01	0.1282-04
		JENDL-3.2	2437				0.1247-01	0.1010-04
		BROND-2	2454				0.1225-01	0.1138-04
	n,d	JEF-2.2	2437				0.1670-02	0.4794-06
	n,t	JEF-2.2	2437					0.4940-06
	n,a	JEF-2.2	2437				0.1320-01	0.4920-04
		ENDF/B-VI	2437				0.1095-01	0.6142-04
JENDL-3.2		2437				0.1236-01	0.4866-04	
BROND-2		2454				0.8800-02	0.1611-04	
25-Mn- 55	Total	JEF-2.2	2525	15.08	13.56	616.9	2.585	3.703
		ENDF/B-VI	2525	15.69	14.14	615.3	2.567	3.680
		JENDL-3.2	2525	15.61	14.08	614.8	2.568	3.679
		CENDL-2	2251	15.30	13.81	610.4	2.572	3.684
	Elast.	JEF-2.2	2525	1.768	1.768	601.7	1.265	2.722
		ENDF/B-VI	2525	2.197	2.192	603.6	1.163	2.783
		JENDL-3.2	2525	2.187	2.187	603.1	1.214	2.800
		CENDL-2	2251	2.184	2.183	595.9	1.234	2.723
	Inel.	JEF-2.2	2525				0.3937	0.9759
		ENDF/B-VI	2525				0.5794	0.8927
		JENDL-3.2	2525				0.5257	0.8753
		CENDL-2	2251				0.4498	0.9563
	n,2n	JEF-2.2	2525				0.7690	0.4369-03
		ENDF/B-VI	2525				0.7190	0.3823-03
		JENDL-3.2	2525				0.7190	0.3823-03
		CENDL-2	2251				0.7573	0.4312-03
	n,3n	JEF-2.2	2525					0.2241-09
		CENDL-2	2251					0.1982-09

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
25-Mn- 55	n,g	JEF-2.2	2525	13.31	11.80	15.30	0.7700-03	0.3312-02
		ENDF/B-VI	2525	13.45	11.94	11.77	0.6650-03	0.2945-02
		JENDL-3.2	2525	13.42	11.89	11.74	0.6645-03	0.2943-02
		CENDL-2	2251	13.12	11.63	14.49	0.6500-03	0.3065-02
	n,p	JEF-2.2	2525				0.4700-01	0.1268-02
		ENDF/B-VI	2525				0.3740-01	0.6418-03
		JENDL-3.2	2525				0.3740-01	0.6418-03
		CENDL-2	2251				0.3094-01	0.8727-03
	n,d	JEF-2.2	2525				0.4398-02	0.6717-05
		ENDF/B-VI	2525				0.4400-02	0.7359-05
		JENDL-3.2	2525				0.4400-02	0.7359-05
		CENDL-2	2251				0.4947-02	0.3235-05
	n,t	ENDF/B-VI	2525				0.8700-03	0.2831-06
		JENDL-3.2	2525				0.8700-03	0.2831-06
		CENDL-2	2251				0.3676-03	0.1228-06
	n,He3	JEF-2.2	2525				0.4200-03	0.5936-07
		ENDF/B-VI	2525					0.1498-07
		JENDL-3.2	2525					0.1498-07
		CENDL-2	2251					0.8829-08
	n,a	JEF-2.2	2525				0.3260-01	0.1457-03
		ENDF/B-VI	2525				0.2768-01	0.1569-03
		JENDL-3.2	2525				0.2768-01	0.1569-03
		CENDL-2	2251				0.2870-01	0.1369-03
	26-Fe- 0	Total	JENDL-3.2	2600	14.02	13.72	118.4	2.558
BROND-2			2601	14.06	13.76	122.3	2.585	3.208
CENDL-2			2260	14.04	13.74	111.0	2.572	3.256
Elast.		JENDL-3.2	2600	11.47	11.47	116.9	1.135	2.541
		BROND-2	2601	11.44	11.44	120.8	1.265	2.557
		CENDL-2	2260	11.38	11.38	109.6	1.199	2.487
Inel.		JENDL-3.2	2600			0.1070	0.7298	0.6432
		BROND-2	2601			0.7021-01	0.6828	0.6416
		CENDL-2	2260			0.1013-01	0.8027	0.7613
n,2n		JENDL-3.2	2600				0.4262	0.1874-03
		BROND-2	2601				0.3999	0.1633-03
		CENDL-2	2260				0.3801	0.1840-03
n,g		JENDL-3.2	2600	2.550	2.244	1.316	0.9940-04	0.3557-02
		BROND-2	2601	2.617	2.320	1.357	0.8159-03	0.3129-02
		CENDL-2	2260	2.664	2.361	1.351	0.2827-03	0.3154-02
n,p		JENDL-3.2	2600				0.1262	0.5848-02
		BROND-2	2601				0.1290	0.6154-02
		CENDL-2	2260				0.9865-01	0.4243-02
n,d		CENDL-2	2260				0.5721-02	0.4380-05
n,t		CENDL-2	2260				0.3978-05	0.1624-07

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
26-Fe- 0	n,He3	CENDL-2	2260				0.5471-06	0.3543-09
		JENDL-3.2	2600				0.4312-01	0.4351-03
	n,a	BROND-2	2601				0.4008-01	0.5552-03
		CENDL-2	2260				0.3119-01	0.4400-03
26-Fe- 54	Total	JEF-2.2	2625	4.784	4.488	101.4	2.486	3.677
		ENDF/B-VI	2625	4.477	4.228	107.8	2.511	3.651
		JENDL-3.2	2625	2.655	2.410	94.96	2.498	3.670
		BROND-2	2611	4.328	4.084	103.8	2.510	3.611
	Elast.	JEF-2.2	2625	2.192	2.191	100.0	1.135	3.208
		ENDF/B-VI	2625	2.216	2.219	106.6	1.188	3.162
		JENDL-3.2	2625	0.4975	0.4975	93.66	1.080	3.252
		BROND-2	2611	2.187	2.186	102.6	1.205	3.120
	Inel.	JEF-2.2	2625				0.2547	0.3657
		ENDF/B-VI	2625				0.3655	0.4025
		JENDL-3.2	2625				0.4815	0.3296
		BROND-2	2611				0.6040	0.4006
	n,2n	JEF-2.2	2625				0.3017-02	0.4103-05
		ENDF/B-VI	2625				0.2507-02	0.2845-05
		JENDL-3.2	2625				0.1203-02	0.2646-05
		BROND-2	2611				0.1500-02	0.4001-05
	n,g	JEF-2.2	2625	2.593	2.297	1.368	0.8853-03	0.5475-02
		ENDF/B-VI	2625	2.261	2.009	1.185	0.7917-03	0.3597-02
		JENDL-3.2	2625	2.157	1.912	1.293	0.1361-03	0.6129-02
		BROND-2	2611	2.142	1.898	1.181	0.8840-03	0.6274-02
	n,p	JEF-2.2	2625				0.3547	0.9695-01
		ENDF/B-VI	2625				0.3417	0.8110-01
		JENDL-3.2	2625				0.3610	0.8101-01
		BROND-2	2611				0.3990	0.8441-01
	n,d	JEF-2.2	2625				0.4843-02	0.5172-05
		ENDF/B-VI	2625				0.1000-01	0.1913-04
	n,t	JEF-2.2	2625					0.1725-08
	n,a	JEF-2.2	2625				0.8400-01	0.1110-02
		ENDF/B-VI	2625				0.8585-01	0.1043-02
		JENDL-3.2	2625	0.1307-18	0.2546-18	0.4894-12	0.8317-01	0.9988-03
		BROND-2	2611				0.8050-01	0.7079-03
	26-Fe- 56	Total	JEF-2.2	2631	14.80	14.49	121.7	2.570
ENDF/B-VI			2631	14.78	14.54	122.0	2.596	3.221
JENDL-3.2			2631	15.39	15.07	122.8	2.574	3.674
BROND-2			2621	15.05	14.74	124.9	2.590	3.197

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
26-Fe- 56	Elast.	JEF-2.2	2631	12.20	12.20	120.3	1.192	2.570
		ENDF/B-VI	2631	12.18	12.23	120.7	1.205	2.573
		JENDL-3.2	2631	12.57	12.57	121.3	1.137	3.016
		BROND-2	2621	12.39	12.39	123.5	1.266	2.548
	Inel.	JEF-2.2	2631				0.6880	0.6133
		ENDF/B-VI	2631				0.7744	0.6430
		JENDL-3.2	2631				0.7693	0.6525
		BROND-2	2621				0.6921	0.6441
	n,2n	JEF-2.2	2631				0.4144	0.1416-03
		ENDF/B-VI	2631				0.4020	0.1323-03
		JENDL-3.2	2631				0.4391	0.1467-03
		BROND-2	2621				0.4190	0.1421-03
	n,g	JEF-2.2	2631	2.593	2.297	1.330	0.2138-03	0.2020-02
		ENDF/B-VI	2631	2.601	2.310	1.339	0.7300-03	0.3030-02
		JENDL-3.2	2631	2.814	2.494	1.424	0.9956-04	0.3454-02
		BROND-2	2621	2.658	2.355	1.365	0.8100-03	0.2968-02
	n,p	JEF-2.2	2631				0.1188	0.1596-02
		ENDF/B-VI	2631				0.1151	0.1205-02
		JENDL-3.2	2631				0.1140	0.1240-02
		BROND-2	2621				0.1140	0.1351-02
	n,d	JEF-2.2	2631				0.9235-03	0.5075-06
		ENDF/B-VI	2631				0.6300-02	0.2894-05
	n,t	JEF-2.2	2631				0.8058-08	0.3940-08
		ENDF/B-VI	2631				0.3000-05	0.1535-07
	n,He3	ENDF/B-VI	2631				0.3000-06	0.1602-08
	n,a	JEF-2.2	2631				0.4500-01	0.3381-03
		ENDF/B-VI	2631				0.4430-01	0.5157-03
		JENDL-3.2	2631				0.4090-01	0.3905-03
BROND-2		2621				0.3800-01	0.5287-03	
26-Fe- 57	Total	JEF-2.2	2634	3.157	2.876	125.2	2.614	3.996
		ENDF/B-VI	2634	5.059	4.799	100.4	2.599	3.480
		JENDL-3.2	2634	2.673	2.392	83.54	2.611	3.954
		BROND-2	2631	4.590	4.311	85.62	2.633	3.667
	Elast.	JEF-2.2	2634	0.6679	0.6682	120.0	1.242	2.756
		ENDF/B-VI	2634	2.622	2.634	95.96	1.212	2.270
		JENDL-3.2	2634	0.2039	0.2039	77.25	1.248	2.774
		BROND-2	2631	2.146	2.146	80.97	1.298	2.401
	Inel.	JEF-2.2	2634			3.414	0.1973	1.232
		ENDF/B-VI	2634			2.966	0.2486	1.203
		JENDL-3.2	2634			4.865	0.3775	1.173
		BROND-2	2631			3.191	0.6438	1.261

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
26-Fe- 57	n,2n	JEF-2.2	2634				1.054	0.2782-02	
		ENDF/B-VI	2634				1.037	0.2139-02	
		JENDL-3.2	2634				0.9434	0.2324-02	
		BROND-2	2631				0.6100	0.1430-02	
	n,g	JEF-2.2	2634	2.489	2.207	1.896	0.3278-03	0.1765-02	
		ENDF/B-VI	2634	2.436	2.165	1.445	0.7917-03	0.2481-02	
		JENDL-3.2	2634	2.464	2.184	1.418	0.6785-05	0.1150-02	
		BROND-2	2631	2.444	2.165	1.453	0.7832-03	0.1657-02	
	n,p	JEF-2.2	2634				0.8279-01	0.1033-02	
		ENDF/B-VI	2634				0.5672-01	0.8118-03	
		JENDL-3.2	2634				0.2974-01	0.5362-03	
		BROND-2	2631				0.5703-01	0.8502-03	
	n,d	JEF-2.2	2634				0.1128-02	0.5364-06	
	n,t	JEF-2.2	2634				0.1076-03	0.3807-07	
	n,a	JEF-2.2	2634				0.2651-01	0.1279-02	
		ENDF/B-VI	2634				0.3208-01	0.1096-02	
		JENDL-3.2	2634				0.1064-01	0.5794-03	
		BROND-2	2631				0.2280-01	0.1327-02	
	26-Fe- 58	Total	JEF-2.2	2637	3.474	3.329	50.23	2.662	3.891
			ENDF/B-VI	2637	4.285	4.170	57.76	2.601	3.541
			JENDL-3.2	2637	7.828	7.682	90.70	2.660	3.906
			BROND-2	2641	4.492	4.347	64.59	2.678	3.557
		Elast.	JEF-2.2	2637	2.200	2.200	48.84	1.270	3.240
			ENDF/B-VI	2637	3.130	3.143	56.28	1.208	2.902
JENDL-3.2			2637	6.527	6.527	89.35	1.267	3.286	
BROND-2			2641	3.221	3.220	63.04	1.332	2.812	
Incl.		JEF-2.2	2637				0.4801	0.6480	
		ENDF/B-VI	2637				0.4592	0.6360	
		JENDL-3.2	2637				0.4198	0.6164	
		BROND-2	2641				0.5558	0.7416	
n,2n		JEF-2.2	2637				0.8766	0.5338-03	
		ENDF/B-VI	2637				0.9027	0.5552-03	
		JENDL-3.2	2637				0.9467	0.5702-03	
		BROND-2	2641				0.7550	0.4783-03	
n,g		JEF-2.2	2637	1.275	1.130	1.390	0.7167-03	0.2068-02	
		ENDF/B-VI	2637	1.155	1.027	1.484	0.7917-03	0.2555-02	
		JENDL-3.2	2637	1.301	1.153	1.345	0.1025-02	0.1865-02	
		BROND-2	2641	1.271	1.127	1.547	0.8840-03	0.2904-02	
n,p		JEF-2.2	2637				0.1836-01	0.1784-04	
		ENDF/B-VI	2637				0.1044-01	0.1373-04	
		JENDL-3.2	2637				0.1262-01	0.1676-04	
		BROND-2	2641				0.1420-01	0.9717-05	
n,d	JEF-2.2	2637				0.1746-03	0.6809-07		

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
26-Fe-58	n,t	JEF-2.2	2637					0.6851-08
	n,a	JEF-2.2	2637				0.1590-01	0.6766-04
		ENDF/B-VI	2637				0.1993-01	0.8411-04
		JENDL-3.2	2637				0.1174-01	0.3218-04
		BROND-2	2641				0.2003-01	0.1272-04
27-Co-58	Total	JEF-2.2	2722	1956.	1752.	0.1163+05	2.715	3.915
	Elast.	JEF-2.2	2722	73.65	74.11	5545.	1.243	2.623
	Inel.	JEF-2.2	2722			0.2682-01	0.9856-01	1.116
	n,2n	JEF-2.2	2722				0.5984	0.1072-02
	n,g	JEF-2.2	2722	165.0	149.0	5.650	0.7168-03	0.2623-02
	n,p	JEF-2.2	2722	1717.	1528.	6084.	0.1660	0.1633
	n,d	JEF-2.2	2722				0.9690-02	0.5128-04
	n,a	JEF-2.2	2722				0.2914	0.7665-02
27-Co-58m	Total	JEF-2.2	2723	0.1452+06	0.1331+06	0.2354+06	2.715	3.914
	Elast.	JEF-2.2	2723	7069.	7403.	0.5903+05	1.243	2.715
	Inel.	JEF-2.2	2723	1666.	1513.	2182.	0.1036	1.153
	n,2n	JEF-2.2	2723				0.6335	0.1150-02
	n,g	JEF-2.2	2723	0.1010+06	0.9171+05	0.1278+06	0.7521-03	0.4297-02
	n,p	JEF-2.2	2723	0.3547+05	0.3217+05	0.4646+05	0.1897	0.3256-01
	n,d	JEF-2.2	2723				0.9690-02	0.5128-04
	n,a	JEF-2.2	2723				0.3135	0.6164-02
27-Co-59	Total	JEF-2.2	2725	43.22	39.00	836.3	2.709	3.740
		ENDF/B-VI	2725	43.37	39.23	856.9	2.716	3.733
		JENDL-3.2	2725	43.27	39.04	842.1	2.653	3.696
		CENDL-2	2271	42.73	38.57	832.1	2.720	3.633
	Elast.	JEF-2.2	2725	6.008	6.007	760.9	1.385	3.007
		ENDF/B-VI	2725	6.036	6.062	780.9	1.393	3.000
		JENDL-3.2	2725	6.069	6.070	766.6	1.265	3.045
		CENDL-2	2271	6.072	6.070	757.1	1.286	2.970

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
27-Co- 59	Incl.	JEF-2.2	2725				0.3583	0.7259	
		ENDF/B-VI	2725				0.3583	0.7259	
		JENDL-3.2	2725				0.5423	0.6425	
		CENDL-2	2271				0.4711	0.6560	
	n,2n	JEF-2.2	2725				0.6887	0.3222-03	
		ENDF/B-VI	2725				0.6887	0.3222-03	
		JENDL-3.2	2725				0.6900	0.3328-03	
		CENDL-2	2271				0.7268	0.3861-03	
	n,3n	CENDL-2	2271					0.4082-09	
	n,g	JEF-2.2	2725	37.23	32.99	75.45	0.9000-03	0.4913-02	
		ENDF/B-VI	2725	37.33	33.17	75.96	0.9000-03	0.5009-02	
		JENDL-3.2	2725	37.19	32.97	75.49	0.1121-02	0.5731-02	
		CENDL-2	2271	36.67	32.50	74.96	0.1400-02	0.5261-02	
	n,p	JEF-2.2	2725				0.5040-01	0.1521-02	
		ENDF/B-VI	2725				0.5040-01	0.1521-02	
		JENDL-3.2	2725				0.5300-01	0.1570-02	
		CENDL-2	2271				0.5330-01	0.1475-02	
	n,d	JEF-2.2	2725				0.1716-02	0.2279-05	
		ENDF/B-VI	2725				0.1716-02	0.2279-05	
		JENDL-3.2	2725				0.5673-02	0.4159-05	
		CENDL-2	2271				0.1913-02	0.1352-05	
	n,t	JEF-2.2	2725				0.2440-03	0.9274-07	
		ENDF/B-VI	2725				0.2440-03	0.9274-07	
		CENDL-2	2271				0.2731-03	0.1222-06	
	n,He3	JEF-2.2	2725				0.5241-09	0.1212-10	
		ENDF/B-VI	2725				0.5241-09	0.1212-10	
		CENDL-2	2271				0.6169-10	0.6100-11	
	n,a	JEF-2.2	2725				0.2988-01	0.1883-03	
		ENDF/B-VI	2725				0.2988-01	0.1883-03	
		JENDL-3.2	2725				0.3220-01	0.2011-03	
		CENDL-2	2271				0.3010-01	0.1930-03	
	28-Ni- 0	Total	JENDL-3.2	2800	22.40	21.90	225.9	2.760	3.739
			BROND-2	2801	22.25	21.76	227.6	2.717	3.556
			CENDL-2	2280	22.51	22.00	225.7	2.749	3.654
		Elast.	JENDL-3.2	2800	18.01	18.01	223.8	1.417	3.287
			BROND-2	2801	17.91	17.91	225.5	1.350	3.037
CENDL-2			2280	18.03	18.03	223.6	1.434	3.114	
Incl.		JENDL-3.2	2800			0.1349-02	0.3971	0.3657	
		BROND-2	2801			0.9489-03	0.7532	0.4380	
		CENDL-2	2280			0.1308-02	0.4344	0.4489	
n,2n		JENDL-3.2	2800				0.1558	0.8255-04	
		BROND-2	2801				0.1403	0.6404-04	
		CENDL-2	2280				0.1501	0.8263-04	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
28-Ni- 0	n,3n	JENDL-3.2	2800					0.6010-08
		CENDL-2	2280					0.7309-08
	n,g	JENDL-3.2	2800	4.385	3.886	2.095	0.5631-04	0.7869-02
		BROND-2	2801	4.344	3.849	2.058	0.9800-03	0.6067-02
		CENDL-2	2280	4.481	3.970	2.068	0.4500-03	0.7894-02
	n,p	JENDL-3.2	2800				0.2825	0.7375-01
		BROND-2	2801				0.3214	0.7286-01
		CENDL-2	2280	0.1038-12	0.2025-12	0.3900-06	0.2910	0.7507-01
	n,d	JENDL-3.2	2800				0.8940-02	0.5909-05
		CENDL-2	2280				0.1171-01	0.1226-04
	n,t	JENDL-3.2	2800				0.8372-05	0.1829-06
	n,He3	JENDL-3.2	2800				0.6828-05	0.5179-08
	n,a	JENDL-3.2	2800	0.6397-14	0.1248-13	0.2405-07	0.7767-01	0.4681-02
		BROND-2	2801	0.5100-11	0.9951-11	0.1917-04	0.9827-01	0.2567-02
CENDL-2		2280	0.6403-14	0.1249-13	0.2407-07	0.9709-01	0.8037-02	
28-Ni- 58	Total	JEF-2.2	2825	29.66	29.13	267.6	2.691	3.638
		ENDF/B-VI	2825	29.68	29.27	269.5	2.687	3.640
		JENDL-3.2	2825	30.99	30.48	280.2	2.664	3.867
		BROND-2	2811	33.11	32.60	329.2	2.662	4.477
	Elast.	JEF-2.2	2825	25.03	25.03	265.5	1.267	3.122
		ENDF/B-VI	2825	25.04	25.15	267.3	1.264	3.124
		JENDL-3.2	2825	26.48	26.48	278.1	1.297	3.426
		BROND-2	2811	28.58	28.58	327.0	1.322	3.968
	Inel.	JEF-2.2	2825				0.3186	0.3925
		ENDF/B-VI	2825				0.3186	0.3924
		JENDL-3.2	2825				0.2966	0.3183
		BROND-2	2811				0.2766	0.3892
	n,2n	JEF-2.2	2825				0.2288-01	0.6982-05
		ENDF/B-VI	2825				0.2288-01	0.6982-05
		JENDL-3.2	2825				0.2150-01	0.6722-05
		BROND-2	2811				0.2250-01	0.6142-05
	n,g	JEF-2.2	2825	4.624	4.097	2.164	0.4792-03	0.6551-02
		ENDF/B-VI	2825	4.642	4.123	2.173	0.4792-03	0.6555-02
		JENDL-3.2	2825	4.506	3.993	2.110	0.5397-04	0.8553-02
		BROND-2	2811	4.543	4.025	2.140	0.1047-02	0.8892-02
	n,p	JEF-2.2	2825				0.3741	0.1065
		ENDF/B-VI	2825				0.3741	0.1065
		JENDL-3.2	2825	0.1996-12	0.3894-12	0.7500-06	0.3640	0.1068
		BROND-2	2811				0.4120	0.1066
n,d	JEF-2.2	2825				0.1586-01	0.1646-04	
	ENDF/B-VI	2825				0.1586-01	0.1646-04	
	JENDL-3.2	2825				0.1020-01	0.5991-05	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
28-Ni- 58	n,t	JENDL-3.2	2825				0.1100-04	0.2009-06
	n,He3	JENDL-3.2	2825				0.9990-05	0.7524-08
	n,a	JEF-2.2	2825				0.1127	0.9944-02
		ENDF/B-VI	2825				0.1127	0.9944-02
		JENDL-3.2	2825				0.9190-01	0.6480-02
	BROND-2	2811				0.1180	0.3487-02	
28-Ni- 59	Total	JEF-2.2	2828	98.43	87.50	517.3	5.815	11.94
	Elast.	JEF-2.2	2828	2.356	2.356	367.1	4.603	11.80
	n,2n	JEF-2.2	2828				0.2857	0.3745-03
	n,g	JEF-2.2	2828	80.82	71.62	126.6	0.5600-03	0.4849-02
		ENDF/B-VI	2828	80.69	71.74	124.5	0.5903-05	0.4798-02
	n,p	JEF-2.2	2828	1.695	1.503	2.792	0.8063	0.1229
		ENDF/B-VI	2828	1.953	1.953	3.099	0.8063	0.1229
	n,d	JEF-2.2	2828				0.4743-02	0.8656-05
	n,t	JEF-2.2	2828				0.1238-02	0.9685-06
	n,He3	JEF-2.2	2828				0.2019-05	0.1949-08
n,a	JEF-2.2	2828	13.56	12.02	20.81	0.7279-01	0.1626-01	
	ENDF/B-VI	2828	11.92	11.93	18.38	0.7279-01	0.1626-01	
28-Ni- 60	Total	JEF-2.2	2831	3.752	3.437	80.13	2.780	3.485
		ENDF/B-VI	2831	3.770	3.462	80.25	2.782	3.486
		JENDL-3.2	2831	4.330	4.001	85.80	2.763	3.546
		BROND-2	2821	3.438	3.139	85.75	2.763	3.934
	Elast.	JEF-2.2	2831	0.9857	0.9853	78.76	1.391	2.942
		ENDF/B-VI	2831	0.9915	0.9927	78.87	1.395	2.943
		JENDL-3.2	2831	1.428	1.428	84.37	1.481	3.092
		BROND-2	2821	0.8254	0.8251	84.41	1.453	3.420
	Incl.	JEF-2.2	2831				0.7219	0.5346
		ENDF/B-VI	2831				0.7219	0.5346
		JENDL-3.2	2831				0.6570	0.4434
		BROND-2	2821				0.7132	0.5046
	n,2n	JEF-2.2	2831				0.3136	0.1010-03
		ENDF/B-VI	2831				0.3136	0.1010-03
		JENDL-3.2	2831				0.3468	0.1095-03
		BROND-2	2821				0.3240	0.1121-03
	n,g	JEF-2.2	2831	2.766	2.451	1.371	0.2860-03	0.4228-02
		ENDF/B-VI	2831	2.779	2.470	1.379	0.2860-03	0.4229-02
		JENDL-3.2	2831	2.901	2.571	1.430	0.6965-04	0.6425-02
		BROND-2	2821	2.612	2.314	1.340	0.9856-03	0.5093-02

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
28-Ni- 60	n,p	JEF-2.2	2831				0.1465	0.2209-02	
		ENDF/B-VI	2831				0.1465	0.2209-02	
		JENDL-3.2	2831				0.1230	0.2969-02	
		BROND-2	2821				0.1460	0.3040-02	
	n,d	JEF-2.2	2831				0.8882-02	0.9218-05	
		ENDF/B-VI	2831				0.8882-02	0.9218-05	
		JENDL-3.2	2831				0.7311-02	0.6841-05	
	n,t	JENDL-3.2	2831					0.1671-06	
	n,He3	JENDL-3.2	2831				0.2894-07	0.1472-09	
	n,a	JEF-2.2	2831	0.1238-14	0.2417-14	0.4659-08	0.5873-01	0.1874-02	
		ENDF/B-VI	2831	0.1177-14	0.2355-14	0.4655-08	0.5873-01	0.1874-02	
		JENDL-3.2	2831				0.5350-01	0.8422-03	
		BROND-2	2821	0.6646-15	0.1297-14	0.2500-08	0.6300-01	0.9926-03	
	28-Ni- 61	Total	JEF-2.2	2834	10.46	10.18	106.1	2.755	3.582
			ENDF/B-VI	2834	10.48	10.23	106.6	2.766	3.582
			JENDL-3.2	2834	11.31	11.03	112.6	2.814	3.841
BROND-2			2831	11.35	11.06	115.6	2.815	3.844	
Elast.		JEF-2.2	2834	7.964	7.962	104.5	1.302	2.345	
		ENDF/B-VI	2834	7.972	8.003	105.0	1.313	2.345	
		JENDL-3.2	2834	8.803	8.803	110.1	1.471	2.757	
		BROND-2	2831	8.867	8.868	113.0	1.738	2.761	
Inel.		JEF-2.2	2834			0.8583-01	0.4738	1.225	
		ENDF/B-VI	2834			0.9156-01	0.4738	1.225	
		JENDL-3.2	2834			0.1194	0.2829	1.069	
		BROND-2	2831			0.8397-01	0.3200	1.068	
n,2n		JEF-2.2	2834				0.7536	0.1355-02	
		ENDF/B-VI	2834				0.7536	0.1355-02	
		JENDL-3.2	2834				0.9284	0.2502-02	
		BROND-2	2831				0.6150	0.9058-03	
n,g		JEF-2.2	2834	2.501	2.216	1.523	0.4224-03	0.4919-02	
		ENDF/B-VI	2834	2.512	2.230	1.530	0.4224-03	0.4923-02	
		JENDL-3.2	2834	2.510	2.224	2.400	0.1835-04	0.5627-02	
		BROND-2	2831	2.481	2.198	2.509	0.1010-02	0.6088-02	
n,p		JEF-2.2	2834				0.9467-01	0.3290-02	
		ENDF/B-VI	2834				0.9467-01	0.3290-02	
		JENDL-3.2	2834				0.7910-01	0.2505-02	
		BROND-2	2831				0.8800-01	0.2761-02	
n,d	JENDL-3.2	2834				0.5551-02	0.2470-05		
n,t	JENDL-3.2	2834				0.7632-04	0.1421-06		
n,He3	JENDL-3.2	2834				0.4535-12	0.2800-09		

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
28-Ni- 61	n,a	JEF-2.2	2834			0.9241-06	0.4731-01	0.2625-02
		ENDF/B-VI	2834			0.9241-06	0.4731-01	0.2625-02
		JENDL-3.2	2834	0.5651-12	0.1104-11	0.2128-05	0.3345-01	0.2625-02
		BROND-2	2831				0.4500-01	0.4126-02
28-Ni- 62	Total	JEF-2.2	2837	24.41	22.76	462.6	2.755	3.642
		ENDF/B-VI	2837	24.53	22.88	463.1	2.763	3.642
		JENDL-3.2	2837	23.79	22.18	471.8	2.872	3.806
		BROND-2	2841	24.45	22.80	461.3	2.869	3.809
	Elast.	JEF-2.2	2837	9.978	9.978	456.6	1.278	3.069
		ENDF/B-VI	2837	10.05	10.01	457.1	1.286	3.070
		JENDL-3.2	2837	9.582	9.582	464.9	1.503	3.333
		BROND-2	2841	10.02	10.02	455.4	1.475	3.220
	Inel.	JEF-2.2	2837				0.7059	0.5650
		ENDF/B-VI	2837				0.7059	0.5650
		JENDL-3.2	2837				0.4849	0.4685
		BROND-2	2841				0.5789	0.5839
	n,2n	JEF-2.2	2837				0.7201	0.3469-03
		ENDF/B-VI	2837				0.7201	0.3469-03
		JENDL-3.2	2837				0.8363	0.3699-03
		BROND-2	2841				0.7713	0.3484-03
	n,g	JEF-2.2	2837	14.43	12.78	5.966	0.2394-03	0.6706-02
		ENDF/B-VI	2837	14.48	12.86	6.006	0.2394-03	0.6713-02
		JENDL-3.2	2837	14.21	12.59	6.873	0.2893-04	0.3485-02
		BROND-2	2841	14.43	12.78	5.874	0.9973-03	0.3390-02
	n,p	JEF-2.2	2837				0.3034-01	0.4793-04
		ENDF/B-VI	2837				0.3034-01	0.4793-04
		JENDL-3.2	2837				0.2796-01	0.5315-04
		BROND-2	2841				0.2000-01	0.4940-04
	n,d	JEF-2.2	2837				0.2884-02	0.2990-05
		ENDF/B-VI	2837				0.2884-02	0.2990-05
		JENDL-3.2	2837				0.1694-03	0.1549-06
	n,t	JENDL-3.2	2837				0.5744-08	0.1218-07
	n,He3	JENDL-3.2	2837				0.1474-20	0.7205-12
	n,a	JEF-2.2	2837				0.1595-01	0.6486-04
		ENDF/B-VI	2837				0.1595-01	0.6486-04
		JENDL-3.2	2837				0.1520-01	0.5806-04
BROND-2		2841				0.2000-01	0.5312-04	
28-Ni- 64	Total	JEF-2.2	2843	1.536	1.363	85.63	2.755	4.075
		ENDF/B-VI	2843	1.542	1.371	85.68	2.756	4.075
		JENDL-3.2	2843	1.516	1.347	88.83	2.985	3.977
		BROND-2	2851	1.627	1.445	92.40	2.984	4.308

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
28-Ni- 64	Elast.	JEF-2.2	2843	0.1638-01	0.1638-01	84.88	1.271	3.572	
		ENDF/B-VI	2843	0.1650-01	0.1644-01	84.92	1.271	3.572	
		JENDL-3.2	2843	0.3488-01	0.3488-01	88.02	1.591	3.556	
		BROND-2	2851	0.3484-01	0.3484-01	91.54	1.641	3.844	
	Inel.	JEF-2.2	2843				0.5027	0.4977	
		ENDF/B-VI	2843				0.5027	0.4977	
		JENDL-3.2	2843				0.2739	0.4171	
		BROND-2	2851				0.3127	0.4591	
	n,2n	JEF-2.2	2843				0.9694	0.8210-03	
		ENDF/B-VI	2843				0.9694	0.8210-03	
		JENDL-3.2	2843				1.109	0.8491-03	
		BROND-2	2851				1.020	0.8645-03	
	n,3n	JENDL-3.2	2843					0.6604-06	
		BROND-2	2851					0.5808-06	
	n,g	JEF-2.2	2843		1.520	1.346	0.7509	0.1936-03	0.4682-02
		ENDF/B-VI	2843		1.525	1.355	0.7553	0.1936-03	0.4681-02
		JENDL-3.2	2843		1.481	1.312	0.8053	0.6316-05	0.2794-02
		BROND-2	2851		1.592	1.410	0.8587	0.9823-03	0.2925-02
	n,p	JEF-2.2	2843				0.3145-02	0.1746-05	
		ENDF/B-VI	2843				0.3145-02	0.1746-05	
		JENDL-3.2	2843				0.4445-02	0.3022-05	
		BROND-2	2851				0.4600-02	0.8194-05	
	n,d	JEF-2.2	2843				0.2478-02	0.1893-05	
		ENDF/B-VI	2843				0.2478-02	0.1894-05	
		JENDL-3.2	2843				0.2186-05	0.1591-07	
	n,t	JENDL-3.2	2843				0.2136-12	0.4336-08	
	n,a	JEF-2.2	2843				0.6425-02	0.1330-04	
		ENDF/B-VI	2843				0.6425-02	0.1330-04	
		JENDL-3.2	2843				0.5066-02	0.1432-04	
		BROND-2	2851				0.4100-02	0.7824-05	
	29-Cu- 0	Total	JEF-2.2	2900	12.61	12.45	128.8	2.955	3.649
			JENDL-3.2	2900	11.72	11.29	116.0	2.850	3.658
			BROND-2	2900	11.78	11.35	119.0	2.955	3.644
			CENDL-2	2290	11.60	11.17	119.0	2.958	3.636
		Elast.	JEF-2.2	2900	8.680	8.685	124.3	1.452	2.896
			JENDL-3.2	2900	7.931	7.930	111.9	1.378	2.869
BROND-2			2900	8.002	8.003	114.7	1.452	2.892	
CENDL-2			2290	7.846	7.842	114.9	1.488	2.875	
Inel.		JEF-2.2	2900				0.6638	0.7257	
		JENDL-3.2	2900				0.5596	0.7602	
		BROND-2	2900				0.6638	0.7257	
		CENDL-2	2290				0.6794	0.7347	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
29-Cu- 0	n,2n	JEF-2.2	2900				0.6015	0.2886-03
		JENDL-3.2	2900				0.6079	0.2903-03
		BROND-2	2900				0.6015	0.2886-03
		CENDL-2	2290				0.5940	0.2642-03
	n,3n	JEF-2.2	2900					0.5054-07
		BROND-2	2900					0.5054-07
		CENDL-2	2290					0.1298-07
	n,g	JEF-2.2	2900	3.794	3.360	4.453	0.2300-02	0.9017-02
		JENDL-3.2	2900	3.787	3.356	4.093	0.6572-03	0.9641-02
		BROND-2	2900	3.778	3.348	4.328	0.2300-02	0.8903-02
		CENDL-2	2290	3.758	3.330	4.078	0.7480-03	0.9475-02
	n,p	JEF-2.2	2900				0.7947-01	0.1698-01
		JENDL-3.2	2900			0.7535-06	0.3893-01	0.1746-01
		BROND-2	2900				0.7947-01	0.1698-01
		CENDL-2	2290				0.3282-01	0.1600-01
	n,d	JEF-2.2	2900				0.5380-02	0.1427-04
		JENDL-3.2	2900				0.6314-02	0.8095-05
		BROND-2	2900				0.5380-02	0.1432-04
		CENDL-2	2290				0.8591-02	0.1372-04
	n,t	CENDL-2	2290				0.2367-03	0.1295-06
	n,He3	JEF-2.2	2900				0.2270-02	0.7891-06
		BROND-2	2900				0.2270-02	0.7891-06
	n,a	JEF-2.2	2900				0.3257-01	0.3563-03
		JENDL-3.2	2900			0.2449-15	0.2887-01	0.4413-03
BROND-2		2900				0.3257-01	0.3566-03	
CENDL-2		2290				0.3244-01	0.4570-03	
29-Cu- 63	Total	ENDF/B-VI	2925	9.689	9.162	101.9	2.920	3.660
		JENDL-3.2	2925	9.653	9.141	98.92	2.825	3.672
	Elast.	ENDF/B-VI	2925	5.192	5.174	96.96	1.483	2.878
		JENDL-3.2	2925	5.143	5.143	93.97	1.360	2.858
	Inel.	ENDF/B-VI	2925				0.6170	0.7497
		JENDL-3.2	2925				0.5559	0.7753
	n,2n	ENDF/B-VI	2925				0.4387	0.1596-03
		JENDL-3.2	2925				0.4897	0.1714-03
	n,g	ENDF/B-VI	2925	4.496	3.988	4.939	0.2720-02	0.1076-01
		JENDL-3.2	2925	4.508	3.995	4.944	0.7273-03	0.1092-01
	n,p	ENDF/B-VI	2925				0.4617-01	0.1994-01
		JENDL-3.2	2925			0.1089-05	0.4615-01	0.2497-01
	n,d	ENDF/B-VI	2925				0.9614-02	0.4536-03
		JENDL-3.2	2925				0.7502-02	0.1061-04
	n,He3	ENDF/B-VI	2925				0.3760-05	0.2461-08

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
29-Cu- 63	n,a	ENDF/B-VI JENDL-3.2	2925 2925				0.4309-01 0.3700-01	0.5998-03 0.6266-03
29-Cu- 65	Total	ENDF/B-VI JENDL-3.2	2931 2931	16.19 16.35	15.89 16.11	152.6 155.2	2.959 2.914	3.740 3.716
	Elast.	ENDF/B-VI JENDL-3.2	2931 2931	14.03 14.18	13.97 14.18	150.5 153.0	1.403 1.418	3.041 2.982
	Inel.	ENDF/B-VI JENDL-3.2	2931 2931				0.5993 0.5677	0.6907 0.7265
	n,2n	ENDF/B-VI JENDL-3.2	2931 2931				0.8953 0.8730	0.5411-03 0.5571-03
	n,g	ENDF/B-VI JENDL-3.2	2931 2931	2.160 2.169	1.918 1.923	2.185 2.185	0.5200-03 0.5002-03	0.7111-02 0.6761-02
	n,p	ENDF/B-VI JENDL-3.2	2931 2931				0.2426-01 0.2274-01	0.5989-03 0.6019-03
	n,d	ENDF/B-VI JENDL-3.2	2931 2931				0.9600-02 0.3647-02	0.8142-04 0.2444-05
	n,t	ENDF/B-VI	2931				0.3263-04	0.1833-07
	n,He3	ENDF/B-VI	2931				0.2330-05	0.1010-08
	n,a	ENDF/B-VI JENDL-3.2	2931 2931			0.7942-15	0.9916-02 0.1062-01	0.1761-04 0.2539-04
30-Zn- 0	Total	BROND-2	3000	5.306	5.185	99.72	2.953	3.802
	Elast.	BROND-2	3000	4.228	4.228	97.22	1.697	3.156
	Inel.	BROND-2	3000				0.4909	0.6101
	n,2n	BROND-2	3000				0.3450	0.1313-03
	n,3n	BROND-2	3000					0.7596-07
	n,g	BROND-2	3000	1.080	0.9567	2.495	0.2479-02	0.1588-01
	n,p	BROND-2	3000				0.1230	0.1778-01
	n,t	BROND-2	3000				0.1000-03	0.9457-07
	n,a	BROND-2	3000	0.4026-05	0.3573-05	0.1686-05	0.5300-01	0.6343-03
30-Zn- 64	Total	JEF-2.2	3025	4.698	4.613	108.2	3.057	3.959

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
30-Zn- 64	Elast.	JEF-2.2	3025	3.935	3.935	106.8	1.520	3.173
	Incl.	JEF-2.2	3025				0.9840	0.7202
	n,2n	JEF-2.2	3025				0.1200	0.3495-04
	n,g	JEF-2.2	3025	0.7642	0.6778	1.348	0.8415-03	0.2116-01
	n,p	JEF-2.2	3025				0.1930	0.4421-01
	n,a	JEF-2.2	3025				0.2000-01	0.4905-03
31-Ga- 0	Total	JEF-2.2	3100	9.541	9.199	106.3	3.119	3.791
		ENDF/B-VI	3100	9.558	9.217	106.4	3.227	3.882
		JENDL-3.2	3100	9.849	9.532	225.9	3.228	3.799
	Elast.	JEF-2.2	3100	6.553	6.551	98.78	1.587	2.672
		ENDF/B-VI	3100	6.575	6.563	99.04	1.816	2.771
		JENDL-3.2	3100	7.046	7.045	202.2	1.624	2.945
	Incl.	JEF-2.2	3100				0.5000	1.092
		ENDF/B-VI	3100				0.5000	1.092
		JENDL-3.2	3100				0.7069	0.8362
	n,2n	JEF-2.2	3100				0.9800	0.7444-03
		ENDF/B-VI	3100				0.8471	0.4881-03
		JENDL-3.2	3100				0.8316	0.4811-03
	n,3n	JENDL-3.2	3100					0.5675-07
	n,g	JEF-2.2	3100	2.986	2.646	7.463	0.7149-03	0.2380-01
		ENDF/B-VI	3100	2.999	2.653	7.316	0.7177-03	0.1599-01
		JENDL-3.2	3100	2.804	2.485	23.69	0.7614-03	0.1529-01
	n,p	JEF-2.2	3100				0.1800-01	0.1778-03
		ENDF/B-VI	3100				0.1800-01	0.1778-03
		JENDL-3.2	3100				0.3139-01	0.1673-02
	n,d	JENDL-3.2	3100				0.4867-02	0.5297-05
	n,t	JENDL-3.2	3100				0.2923-03	0.1447-06
	n,He3	JENDL-3.2	3100				0.6701-08	0.9252-10
	n,a	JEF-2.2	3100				0.3500-01	0.1869-02
		ENDF/B-VI	3100				0.3500-01	0.1869-02
	JENDL-3.2	3100				0.1539-01	0.2939-03	
31-Ga- 69	Total	JENDL-3.2	3125	10.42	10.18	140.0	3.196	3.785
	Elast.	JENDL-3.2	3125	8.222	8.222	121.9	1.594	2.968
	Incl.	JENDL-3.2	3125				0.7203	0.7963

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
31-Ga- 69	n,2n	JENDL-3.2	3125				0.7908	0.3504-03
	n,g	JENDL-3.2	3125	2.201	1.951	18.11	0.7723-03	0.1725-01
	n,p	JENDL-3.2	3125				0.3937-01	0.2707-02
	n,d	JENDL-3.2	3125				0.6081-02	0.7529-05
	n,t	JENDL-3.2	3125				0.3586-03	0.1696-06
	n,He3	JENDL-3.2	3125				0.1115-07	0.1503-09
	n,a	JENDL-3.2	3125				0.2334-01	0.4792-03
31-Ga- 71	Total	JENDL-3.2	3131	8.985	8.564	355.2	3.279	3.820
	Elast.	JENDL-3.2	3131	5.274	5.273	323.1	1.668	2.910
	Inel.	JENDL-3.2	3131				0.6867	0.8963
	n,2n	JENDL-3.2	3131				0.8931	0.6779-03
	n,3n	JENDL-3.2	3131					0.1422-06
	n,g	JENDL-3.2	3131	3.711	3.289	32.09	0.7448-03	0.1235-01
	n,p	JENDL-3.2	3131				0.1937-01	0.1146-03
	n,d	JENDL-3.2	3131				0.3038-02	0.1934-05
	n,t	JENDL-3.2	3131				0.1924-03	0.1071-06
	n,He3	JENDL-3.2	3131				0.1748-13	0.5495-11
n,a	JENDL-3.2	3131				0.3411-02	0.1475-04	
32-Ge- 0	Total	JENDL-3.2	3200	10.69	10.45	136.6	3.212	4.215
	Elast.	JENDL-3.2	3200	8.574	8.573	130.8	1.692	3.424
	Inel.	JENDL-3.2	3200			0.8305-02	0.5703	0.7699
	n,2n	JENDL-3.2	3200				0.8641	0.7182-03
	n,3n	JENDL-3.2	3200					0.1543-06
	n,g	JENDL-3.2	3200	2.113	1.872	5.790	0.7707-03	0.1592-01
	n,p	JENDL-3.2	3200				0.3553-01	0.1365-02
	n,d	JENDL-3.2	3200				0.3167-02	0.1632-05
	n,t	JENDL-3.2	3200				0.2475-04	0.3435-07

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
32-Ge- 0	n,He3	JENDL-3.2	3200				0.1054-06	0.2290-09
	n,a	JENDL-3.2	3200			0.3414-10	0.1656-01	0.4941-03
32-Ge- 70	Total	JENDL-3.2	3225	15.53	15.20	142.9	3.084	4.145
	Elast.	JENDL-3.2	3225	12.59	12.59	140.5	1.603	3.514
	Incl.	JENDL-3.2	3225				0.7912	0.5923
	n,2n	JENDL-3.2	3225				0.4071	0.1260-03
	n,g	JENDL-3.2	3225	2.936	2.602	2.365	0.7777-03	0.2927-01
	n,p	JENDL-3.2	3225				0.1041	0.6064-02
	n,d	JENDL-3.2	3225				0.6539-02	0.3792-05
	n,t	JENDL-3.2	3225				0.1021-04	0.3854-07
	n,He3	JENDL-3.2	3225				0.5139-06	0.1060-08
n,a	JENDL-3.2	3225				0.3104-01	0.2134-02	
32-Ge- 72	Total	JEF-2.2	3231	3.792	3.680	64.73	3.609	3.921
		ENDF/B-VI	3231	3.796	3.684	64.82	3.608	3.924
		JENDL-3.2	3231	9.975	9.884	103.8	3.180	4.201
	Elast.	JEF-2.2	3231	2.811	2.810	63.70	2.350	3.220
		ENDF/B-VI	3231	2.816	2.809	63.80	2.401	3.221
		JENDL-3.2	3231	9.165	9.164	103.0	1.730	3.428
	Incl.	JEF-2.2	3231				1.206	0.6732
		ENDF/B-VI	3231				1.206	0.6732
		JENDL-3.2	3231				0.6108	0.7469
	n,2n	JENDL-3.2	3231				0.7822	0.3323-03
	n,3n	JENDL-3.2	3231					0.1418-07
	n,g	JEF-2.2	3231	0.9812	0.8694	1.018	0.1435-02	0.2427-01
		ENDF/B-VI	3231	0.9859	0.8720	1.020	0.1434-02	0.2428-01
		JENDL-3.2	3231	0.8104	0.7182	0.7459	0.7683-03	0.2324-01
	n,p	JEF-2.2	3231				0.2912-01	0.2229-03
		JENDL-3.2	3231				0.3255-01	0.3741-03
	n,d	JEF-2.2	3231				0.4420-02	0.4347-05
		JENDL-3.2	3231				0.4080-02	0.1798-05
n,t	JEF-2.2	3231				0.1914-04	0.1146-07	
	JENDL-3.2	3231				0.1414-04	0.6335-07	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
32-Ge- 72	n,He3	JEF-2.2	3231				0.1865-05	0.1425-08
		JENDL-3.2	3231				0.8722-10	0.3950-10
	n,a	JEF-2.2	3231			0.3995-06	0.1541-01	0.1376-03
		JENDL-3.2	3231				0.1364-01	0.1018-03
32-Ge- 73	Total	JEF-2.2	3234	16.24	14.53	452.4	3.647	3.969
		ENDF/B-VI	3234	15.77	14.09	451.0	3.646	3.973
		JENDL-3.2	3234	19.25	17.61	458.8	3.227	4.228
	Elast.	JEF-2.2	3234	1.219	1.219	386.1	2.396	3.055
		ENDF/B-VI	3234	0.7197	0.7216	381.0	2.433	3.063
		JENDL-3.2	3234	4.834	4.833	396.6	1.664	3.113
	Inel.	JEF-2.2	3234			0.9914-01	1.211	0.8594
		ENDF/B-VI	3234			0.9914-01	1.211	0.8594
		JENDL-3.2	3234			0.1065	0.4068	1.095
	n,2n	JENDL-3.2	3234				1.123	0.3168-02
	n,3n	JENDL-3.2	3234					0.8948-07
	n,g	JEF-2.2	3234	15.02	13.31	66.08	0.1876-02	0.5035-01
		ENDF/B-VI	3234	15.05	13.36	69.86	0.1880-02	0.5053-01
		JENDL-3.2	3234	14.41	12.77	62.14	0.7614-03	0.1418-01
	n,p	JEF-2.2	3234				0.2903-01	0.1173-02
		JENDL-3.2	3234				0.1891-01	0.1820-03
	n,d	JEF-2.2	3234				0.3448-02	0.3245-05
		JENDL-3.2	3234				0.2479-02	0.1043-05
	n,t	JEF-2.2	3234				0.2505-03	0.2178-06
		JENDL-3.2	3234				0.2408-03	0.1098-06
	n,He3	JEF-2.2	3234				0.1811-05	0.1245-08
		JENDL-3.2	3234				0.1399-12	0.1083-10
n,a	JEF-2.2	3234			0.6882-06	0.8430-02	0.1994-03	
	JENDL-3.2	3234			0.4376-09	0.7852-02	0.2393-03	
32-Ge- 74	Total	JEF-2.2	3237	2.768	2.723	68.79	3.689	4.022
		ENDF/B-VI	3237	2.758	2.711	68.76	3.693	4.025
		JENDL-3.2	3237	7.267	7.220	96.84	3.274	4.237
	Elast.	JEF-2.2	3237	2.383	2.384	68.24	2.440	3.284
		ENDF/B-VI	3237	2.373	2.368	68.19	2.464	3.285
		JENDL-3.2	3237	6.846	6.846	96.43	1.694	3.421
	Inel.	JEF-2.2	3237				1.228	0.7246
		ENDF/B-VI	3237				1.228	0.7246
		JENDL-3.2	3237				0.4722	0.8083
	n,2n	JENDL-3.2	3237				1.076	0.7371-03

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
32-Ge- 74	n,3n	JENDL-3.2	3237					0.1731-06
	n,g	JEF-2.2	3237	0.3835	0.3398	0.5468	0.1363-02	0.1154-01
		ENDF/B-VI	3237	0.3853	0.3408	0.5489	0.1363-02	0.1156-01
		JENDL-3.2	3237	0.4202	0.3724	0.4163	0.7715-03	0.6074-02
	n,p	JEF-2.2	3237				0.1084-01	0.3943-04
		JENDL-3.2	3237				0.9900-02	0.1312-04
	n,d	JEF-2.2	3237				0.2350-02	0.1819-05
		JENDL-3.2	3237				0.1251-02	0.6116-06
	n,t	JEF-2.2	3237				0.1105-04	0.5860-08
		JENDL-3.2	3237				0.1620-08	0.1312-08
	n,He3	JEF-2.2	3237				0.1760-05	0.1002-08
	n,a	JEF-2.2	3237				0.5642-02	0.1765-04
JENDL-3.2		3237				0.1577-01	0.2746-04	
32-Ge- 76	Total	JEF-2.2	3243	3.144	3.129	54.33	3.762	4.130
		ENDF/B-VI	3243	3.153	3.135	54.36	3.768	4.134
		JENDL-3.2	3243	7.911	7.895	99.10	3.368	4.321
	Elast.	JEF-2.2	3243	3.003	3.003	53.00	2.548	3.399
		ENDF/B-VI	3243	3.007	3.008	53.00	2.560	3.397
		JENDL-3.2	3243	7.762	7.761	97.80	1.792	3.503
	Inel.	JEF-2.2	3243				1.207	0.7257
		ENDF/B-VI	3243				1.207	0.7257
		JENDL-3.2	3243				0.4703	0.8124
	n,2n	JENDL-3.2	3243				1.100	0.1091-02
	n,3n	JENDL-3.2	3243					0.1029-05
	n,g	JEF-2.2	3243	0.1422	0.1260	1.322	0.1277-02	0.3637-02
		ENDF/B-VI	3243	0.1429	0.1264	1.323	0.1277-02	0.3643-02
		JENDL-3.2	3243	0.1501	0.1330	1.304	0.7664-03	0.2762-02
	n,p	JEF-2.2	3243				0.3595-02	0.6505-05
		JENDL-3.2	3243				0.2320-02	0.1448-05
	n,d	JEF-2.2	3243				0.1320-02	0.8753-06
		JENDL-3.2	3243				0.7584-03	0.7295-06
	n,t	JEF-2.2	3243				0.6628-05	0.3285-08
		JENDL-3.2	3243				0.1310-10	0.5717-09
	n,He3	JEF-2.2	3243					0.4853-09
	n,a	JEF-2.2	3243				0.1474-02	0.4096-05
		JENDL-3.2	3243				0.1229-02	0.6748-06

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
33-As- 75	Total	JEF-2.2	3325	6.197	5.707	183.5	3.725	4.076
		ENDF/B-VI	3325	6.043	5.563	182.8	3.731	4.081
		JENDL-3.2	3325	9.970	9.460	217.1	3.457	4.267
	Elast.	JEF-2.2	3325	1.890	1.890	123.6	2.449	2.835
		ENDF/B-VI	3325	1.737	1.737	121.3	2.500	2.837
		JENDL-3.2	3325	5.467	5.466	153.4	1.778	2.818
	Inel.	JEF-2.2	3325				1.230	1.191
		ENDF/B-VI	3325				1.230	1.191
		JENDL-3.2	3325				0.6851	1.414
	n,2n	JENDL-3.2	3325				0.9500	0.4743-03
	n,3n	JENDL-3.2	3325					0.2211-07
	n,g	JEF-2.2	3325	4.305	3.815	59.87	0.1535-02	0.4589-01
		ENDF/B-VI	3325	4.319	3.828	61.45	0.1535-02	0.4595-01
		JENDL-3.2	3325	4.502	3.991	63.63	0.1035-02	0.3227-01
	n,p	JEF-2.2	3325				0.3243-01	0.2097-02
		JENDL-3.2	3325				0.1900-01	0.5176-03
	n,d	JEF-2.2	3325				0.4062-02	0.1158-04
		JENDL-3.2	3325				0.2370-02	0.2188-05
	n,t	JEF-2.2	3325				0.2876-03	0.2242-06
n,He3	JEF-2.2	3325				0.2520-05	0.1901-08	
n,a	JEF-2.2	3325			0.1475-06	0.1000-01	0.5481-04	
	JENDL-3.2	3325				0.1013-01	0.2692-04	
34-Se- 74	Total	JEF-2.2	3425	51.77	45.90	1324.	6.222	4.673
		ENDF/B-VI	3425	66.86	81.33	1318.	6.249	4.676
		JENDL-3.2	3425	59.17	53.29	1387.	3.844	4.984
	Elast.	JEF-2.2	3425	0.1016-01	0.9964-02	745.2	4.461	3.657
		ENDF/B-VI	3425	-2.386	-2.388	736.1	4.650	3.662
		JENDL-3.2	3425	7.324	7.318	807.4	2.391	3.936
	Inel.	JEF-2.2	3425				1.580	0.9817
		ENDF/B-VI	3425				1.580	0.9817
		JENDL-3.2	3425				0.4984	0.9834
	n,2n	JENDL-3.2	3425				0.2718	0.7544-04
	n,g	JEF-2.2	3425	51.73	45.86	579.3	0.1640-02	0.2944-01
		ENDF/B-VI	3425	69.11	83.72	581.6	0.1640-02	0.2946-01
		JENDL-3.2	3425	51.83	45.97	579.5	0.1042-02	0.3914-01
	n,p	JEF-2.2	3425				0.1351	0.3603-02
		JENDL-3.2	3425				0.1514	0.1838-01
	n,d	JEF-2.2	3425				0.6813-02	0.8739-05
		JENDL-3.2	3425				0.1240-02	0.7908-06

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
34-Se-74	n,t	JEF-2.2	3425				0.4119-04	0.2442-07	
		JENDL-3.2	3425				0.1793-06	0.1024-07	
	n,He3	JEF-2.2	3425				0.2076-05	0.2277-08	
		JENDL-3.2	3425				0.2796-06	0.1081-08	
	n,a	JEF-2.2	3425			0.1169-05	0.3588-01	0.3873-03	
		JENDL-3.2	3425				0.4142-01	0.4479-02	
34-Se-76	Total	JEF-2.2	3431	87.05	77.34	133.5	3.762	4.137	
		ENDF/B-VI	3431	86.95	77.42	132.7	3.768	4.142	
		JENDL-3.2	3431	103.6	93.90	242.4	3.844	4.986	
	Elast.	JEF-2.2	3431	1.918	1.918	89.12	2.493	3.369	
		ENDF/B-VI	3431	1.765	1.767	88.16	2.599	3.371	
		JENDL-3.2	3431	18.52	18.52	201.5	2.550	3.963	
	Inel.	JEF-2.2	3431				1.168	0.7298	
		ENDF/B-VI	3431				1.168	0.7298	
		JENDL-3.2	3431				0.3499	1.003	
	n,2n	JENDL-3.2	3431				0.8249	0.3008-03	
	n,3n	JENDL-3.2	3431					0.9023-09	
	n,g	JEF-2.2	3431	85.11	75.40	44.35	0.1620-02	0.3634-01	
		ENDF/B-VI	3431	85.51	75.61	44.47	0.1620-02	0.3640-01	
		JENDL-3.2	3431	85.04	75.36	40.92	0.1023-02	0.1774-01	
	n,p	JEF-2.2	3431				0.7853-01	0.9407-03	
		JENDL-3.2	3431				0.7336-01	0.7211-03	
	n,d	JEF-2.2	3431				0.4998-02	0.5040-05	
		JENDL-3.2	3431				0.1462-03	0.1398-06	
	n,t	JEF-2.2	3431				0.2387-04	0.1399-07	
		JENDL-3.2	3431				0.1303-07	0.4949-08	
	n,He3	JEF-2.2	3431				0.1954-05	0.1756-08	
		JENDL-3.2	3431				0.4807-09	0.1438-10	
	n,a	JEF-2.2	3431			0.1560-06	0.1479-01	0.6024-04	
		JENDL-3.2	3431				0.1719-01	0.2967-03	
	34-Se-77	Total	JEF-2.2	3434	44.47	39.67	144.6	3.796	4.200
			ENDF/B-VI	3434	44.40	39.70	144.1	3.803	4.204
JENDL-3.2			3434	50.51	45.70	182.8	3.844	4.989	
Elast.		JEF-2.2	3434	2.416	2.416	108.6	2.539	2.919	
		ENDF/B-VI	3434	2.308	2.309	107.7	2.596	2.917	
		JENDL-3.2	3434	8.485	8.483	150.9	2.502	3.445	

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
34-Se- 77	Inel.	JEF-2.2	3434				1.205	1.235
		ENDF/B-VI	3434				1.205	1.235
		JENDL-3.2	3434				0.1363	1.509
	n,2n	JENDL-3.2	3434				1.156	0.5401-02
	n,3n	JENDL-3.2	3434					0.2006-07
	n,g	JEF-2.2	3434	42.05	37.26	35.92	0.2055-02	0.4105-01
		ENDF/B-VI	3434	42.17	37.38	36.32	0.2056-02	0.4112-01
		JENDL-3.2	3434	42.02	37.21	31.80	0.1001-02	0.2735-01
	n,p	JEF-2.2	3434			0.7897-05	0.3708-01	0.1760-02
		JENDL-3.2	3434				0.3257-01	0.9126-03
	n,d	JEF-2.2	3434				0.3768-02	0.3758-05
		JENDL-3.2	3434				0.1207-02	0.5807-06
	n,t	JEF-2.2	3434				0.3053-03	0.2406-06
		JENDL-3.2	3434				0.1758-05	0.1675-07
	n,He3	JEF-2.2	3434				0.1899-05	0.1522-08
JENDL-3.2		3434				0.1976-11	0.7027-10	
n,a	JEF-2.2	3434			0.1003-05	0.1105-01	0.2928-03	
	JENDL-3.2	3434				0.9336-02	0.7089-03	
34-Se- 78	Total	JEF-2.2	3437	2.953	2.907	68.43	3.829	4.266
		ENDF/B-VI	3437	2.926	2.877	68.23	3.836	4.269
		JENDL-3.2	3437	8.885	8.837	126.8	3.844	4.985
	Elast.	JEF-2.2	3437	2.552	2.552	63.91	2.604	3.477
		ENDF/B-VI	3437	2.520	2.521	63.69	2.638	3.477
		JENDL-3.2	3437	8.455	8.455	122.1	2.570	4.009
	Inel.	JEF-2.2	3437				1.197	0.7729
		ENDF/B-VI	3437				1.197	0.7729
		JENDL-3.2	3437				0.2502	0.9547
	n,2n	JENDL-3.2	3437				0.9978	0.5386-03
	n,3n	JENDL-3.2	3437					0.1394-06
	n,g	JEF-2.2	3437	0.4005	0.3548	4.514	0.1521-02	0.1504-01
		ENDF/B-VI	3437	0.4025	0.3559	4.493	0.1520-02	0.1506-01
		JENDL-3.2	3437	0.4302	0.3813	4.630	0.1014-02	0.1973-01
	n,p	JEF-2.2	3437				0.1701-01	0.9010-04
		JENDL-3.2	3437				0.1600-01	0.2950-04
	n,d	JEF-2.2	3437				0.2777-02	0.2337-05
		JENDL-3.2	3437				0.4735-04	0.8311-07
	n,t	JEF-2.2	3437				0.1425-04	0.7850-08
		JENDL-3.2	3437				0.1272-08	0.4904-08

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
34-Se- 78	n,He3	JEF-2.2	3437				0.1848-05	0.1307-08
	n,a	JEF-2.2	3437			0.1123-06	0.9181-02	0.4300-04
		JENDL-3.2	3437				0.5159-02	0.2170-04
34-Se- 79	Total	JENDL-3.2	3440	56.48	50.86	182.2	3.844	4.982
	Elast.	JENDL-3.2	3440	6.345	6.342	121.3	2.514	3.621
	Incl.	JENDL-3.2	3440			0.2344-05	0.9499-01	1.319
	n,2n	JENDL-3.2	3440				1.213	0.8716-02
	n,3n	JENDL-3.2	3440					0.2497-06
	n,g	JENDL-3.2	3440	50.03	44.34	60.60	0.1001-02	0.3093-01
	n,p	JENDL-3.2	3440				0.8637-02	0.3117-04
	n,d	JENDL-3.2	3440				0.3179-03	0.1967-06
	n,t	JENDL-3.2	3440				0.1536-05	0.1769-07
	n,He3	JENDL-3.2	3440					0.1051-11
	n,a	JENDL-3.2	3440				0.8553-02	0.8467-04
	34-Se- 80	Total	JEF-2.2	3443	1.682	1.612	113.5	3.891
ENDF/B-VI			3443	1.292	1.226	110.6	3.888	4.420
JENDL-3.2			3443	7.605	7.536	167.0	3.845	4.993
Elast.		JEF-2.2	3443	1.071	1.071	112.5	2.695	3.649
		ENDF/B-VI	3443	0.6826	0.6812	109.6	2.722	3.647
		JENDL-3.2	3443	6.994	6.994	166.1	2.498	4.074
Incl.		JEF-2.2	3443				1.167	0.7480
		ENDF/B-VI	3443				1.167	0.7480
		JENDL-3.2	3443				0.1829	0.9083
n,2n		JENDL-3.2	3443				1.133	0.9704-03
n,3n		JENDL-3.2	3443					0.8134-06
n,g		JEF-2.2	3443	0.6108	0.5411	1.000	0.1448-02	0.1511-01
		ENDF/B-VI	3443	0.6139	0.5430	1.001	0.1447-02	0.1513-01
		JENDL-3.2	3443	0.6104	0.5409	0.9297	0.1001-02	0.7934-02
n,p		JEF-2.2	3443				0.1537-01	0.4108-04
		JENDL-3.2	3443				0.1285-01	0.8998-05
n,d		JEF-2.2	3443				0.1598-02	0.1157-05
		JENDL-3.2	3443				0.2755-05	0.3028-07

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
34-Se- 80	n,t	JEF-2.2	3443				0.8750-05	0.4524-08
		JENDL-3.2	3443				0.9024-10	0.3054-08
	n,He3	JEF-2.2	3443				0.1755-05	0.8657-09
	n,a	JEF-2.2	3443				0.1204-01	0.3640-04
JENDL-3.2		3443				0.1350-01	0.1566-04	
34-Se- 82	Total	JEF-2.2	3449	2.963	2.957	49.11	3.945	4.544
		ENDF/B-VI	3449	2.946	2.951	49.04	3.956	4.550
		JENDL-3.2	3449	5.075	5.070	103.6	3.844	4.990
	Elast.	JEF-2.2	3449	2.918	2.918	49.03	2.790	3.820
		ENDF/B-VI	3449	2.909	2.908	49.01	2.806	3.820
		JENDL-3.2	3449	5.031	5.031	102.8	2.625	4.133
	Incl.	JEF-2.2	3449				1.150	0.7167
		ENDF/B-VI	3449				1.150	0.7167
		JENDL-3.2	3449				0.1344	0.8429
	n,2n	JENDL-3.2	3449				1.079	0.1407-02
	n,3n	JENDL-3.2	3449					0.2618-05
	n,g	JEF-2.2	3449	0.4505-01	0.3992-01	0.6691-01	0.1319-02	0.4614-02
		ENDF/B-VI	3449	0.4518-01	0.4004-01	0.6705-01	0.1319-02	0.4619-02
		JENDL-3.2	3449	0.4422-01	0.3919-01	0.7438	0.1006-02	0.1052-01
	n,p	JEF-2.2	3449				0.2055-02	0.2623-05
		JENDL-3.2	3449				0.1711-02	0.8517-06
	n,d	JEF-2.2	3449				0.9511-03	0.6072-06
		JENDL-3.2	3449				0.2696-06	0.1372-07
	n,t	JEF-2.2	3449				0.5504-05	0.2653-08
		JENDL-3.2	3449				0.4035-13	0.1772-08
n,He3	JEF-2.2	3449					0.1752-09	
n,a	JEF-2.2	3449				0.7482-03	0.1780-05	
	JENDL-3.2	3449				0.1693-03	0.1039-06	
35-Br- 79	Total	JEF-2.2	3525	13.55	12.29	251.8	3.862	4.336
		ENDF/B-VI	3525	13.51	12.27	251.9	3.855	4.340
		JENDL-3.2	3525	14.30	13.05	251.5	3.844	4.983
	Elast.	JEF-2.2	3525	2.441	2.441	115.7	2.628	3.004
		ENDF/B-VI	3525	2.385	2.382	115.6	2.691	3.011
		JENDL-3.2	3525	3.290	3.289	123.0	2.474	3.414
	Incl.	JEF-2.2	3525				1.175	1.238
		ENDF/B-VI	3525				1.175	1.238
		JENDL-3.2	3525				0.2912	1.510

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
35-Br- 79	n,2n	JENDL-3.2	3525				0.8833	0.4061-03
	n,3n	JENDL-3.2	3525					0.5265-08
	n,g	JEF-2.2	3525	11.11	9.851	135.9	0.1718-02	0.8723-01
		ENDF/B-VI	3525	11.15	9.882	136.0	0.1717-02	0.8734-01
		JENDL-3.2	3525	11.01	9.753	128.4	0.1030-02	0.5253-01
	n,p	JEF-2.2	3525			0.2020-04	0.3531-01	0.4277-02
		JENDL-3.2	3525				0.3143-01	0.4557-02
	n,d	JEF-2.2	3525				0.4703-02	0.1428-04
		JENDL-3.2	3525				0.1645-02	0.1043-05
	n,t	JEF-2.2	3525				0.3225-03	0.2647-06
		JENDL-3.2	3525				0.1021-04	0.3517-07
	n,He3	JEF-2.2	3525				0.1943-05	0.1668-08
		JENDL-3.2	3525				0.3146-10	0.1001-09
	n,a	JEF-2.2	3525			0.3673-06	0.1629-01	0.1296-03
JENDL-3.2		3525				0.1187-01	0.6577-04	
35-Br- 81	Total	JEF-2.2	3531	6.946	6.630	188.1	3.920	4.480
		ENDF/B-VI	3531	5.558	5.263	175.2	3.921	4.484
		JENDL-3.2	3531	6.331	6.026	170.2	3.845	4.981
	Elast.	JEF-2.2	3531	4.169	4.168	133.8	2.688	3.439
		ENDF/B-VI	3531	2.869	2.868	125.3	2.743	3.442
		JENDL-3.2	3531	3.639	3.639	123.7	2.508	3.624
	Inel.	JEF-2.2	3531				1.179	0.9738
		ENDF/B-VI	3531				1.179	0.9738
		JENDL-3.2	3531				0.2680	1.331
	n,2n	JENDL-3.2	3531				1.029	0.7010-03
	n,3n	JENDL-3.2	3531					0.9399-07
	n,g	JEF-2.2	3531	2.778	2.462	54.24	0.1636-02	0.5886-01
		ENDF/B-VI	3531	2.701	2.395	49.89	0.1636-02	0.5899-01
		JENDL-3.2	3531	2.691	2.386	46.48	0.1005-02	0.2264-01
	n,p	JEF-2.2	3531				0.4172-01	0.2661-02
		JENDL-3.2	3531				0.2072-01	0.2519-03
	n,d	JEF-2.2	3531				0.2639-02	0.4911-05
		JENDL-3.2	3531				0.4251-03	0.3098-06
	n,t	JEF-2.2	3531				0.2034-03	0.1501-06
		JENDL-3.2	3531				0.1897-05	0.2153-07
	n,He3	JEF-2.2	3531				0.1843-05	0.1224-08
	n,a	JEF-2.2	3531			0.7393-07	0.6276-02	0.2858-04
		JENDL-3.2	3531				0.4259-02	0.5193-05

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
36-Kr- 78	Total	JEF-2.2	3625	13.63	13.07	168.0	3.783	5.067
		ENDF/B-VI	3625	13.78	13.20	168.8	3.767	5.071
		JENDL-3.2	3625	14.08	13.38	142.3	3.844	4.975
	Elast.	JEF-2.2	3625	8.771	8.770	144.7	1.923	3.510
		ENDF/B-VI	3625	8.900	8.894	145.4	1.930	3.515
		JENDL-3.2	3625	7.880	7.879	117.0	2.644	3.850
	Inel.	JEF-2.2	3625				1.365	1.456
		ENDF/B-VI	3625				1.365	1.456
		JENDL-3.2	3625				0.4098	1.039
	n,2n	JEF-2.2	3625				0.1985	0.5623-04
		ENDF/B-VI	3625				0.1985	0.5622-04
		JENDL-3.2	3625				0.1924	0.5244-04
	n,g	JEF-2.2	3625	4.851	4.297	23.35	0.1770-03	0.7154-01
		ENDF/B-VI	3625	4.858	4.313	23.35	0.1770-03	0.7157-01
		JENDL-3.2	3625	6.203	5.497	25.35	0.1117-02	0.6834-01
	n,p	JEF-2.2	3625				0.2508	0.2701-01
		ENDF/B-VI	3625				0.2508	0.2701-01
		JENDL-3.2	3625				0.1565	0.1207-01
	n,d	JEF-2.2	3625				0.2249-01	0.1494-04
		ENDF/B-VI	3625				0.2250-01	0.1494-04
		JENDL-3.2	3625				0.8474-03	0.5924-06
n,t	JEF-2.2	3625					0.3598-06	
	ENDF/B-VI	3625					0.3596-06	
	JENDL-3.2	3625				0.1920-06	0.1118-07	
n,He3	JEF-2.2	3625				0.5400-03	0.2166-06	
	ENDF/B-VI	3625				0.5400-03	0.2165-06	
	JENDL-3.2	3625				0.1512-06	0.7662-09	
n,a	JEF-2.2	3625				0.1816-01	0.1908-02	
	ENDF/B-VI	3625				0.1816-01	0.1908-02	
	JENDL-3.2	3625				0.4315-01	0.2557-02	
36-Kr- 80	Total	JEF-2.2	3631	20.69	19.35	313.7	3.652	5.232
		ENDF/B-VI	3631	21.32	20.02	317.4	3.636	5.236
		JENDL-3.2	3631	18.84	17.54	280.9	3.845	4.975
	Elast.	JEF-2.2	3631	8.937	8.939	245.4	1.938	3.808
		ENDF/B-VI	3631	9.591	9.580	249.1	1.930	3.813
		JENDL-3.2	3631	7.336	7.334	221.1	2.543	4.004
	Inel.	JEF-2.2	3631				0.8997	1.379
		ENDF/B-VI	3631				0.8997	1.379
		JENDL-3.2	3631				0.4414	0.8840
	n,2n	JEF-2.2	3631				0.7770	0.2516-03
		ENDF/B-VI	3631				0.7770	0.2515-03
		JENDL-3.2	3631				0.7352	0.2270-03

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
36-Kr- 80	n,g	JEF-2.2	3631	11.75	10.41	68.35	0.1050-02	0.4286-01	
		ENDF/B-VI	3631	11.76	10.44	68.40	0.1050-02	0.4286-01	
		JENDL-3.2	3631	11.51	10.20	59.77	0.2361-02	0.8321-01	
	n,p	JEF-2.2	3631				0.2470-01	0.1657-02	
		ENDF/B-VI	3631				0.2470-01	0.1657-02	
		JENDL-3.2	3631				0.5951-01	0.1324-02	
	n,d	JEF-2.2	3631				0.1260-01	0.6588-05	
		ENDF/B-VI	3631				0.1260-01	0.6585-05	
		JENDL-3.2	3631				0.3157-03	0.2219-06	
	n,t	JEF-2.2	3631					0.2086-06	
		ENDF/B-VI	3631					0.2085-06	
		JENDL-3.2	3631				0.4774-08	0.4369-08	
	n,He3	JEF-2.2	3631				0.4023-04	0.1205-06	
		ENDF/B-VI	3631				0.4023-04	0.1205-06	
		JENDL-3.2	3631				0.3849-08	0.6196-10	
	n,a	JEF-2.2	3631				0.1070-02	0.1076-03	
		ENDF/B-VI	3631				0.1070-02	0.1076-03	
		JENDL-3.2	3631				0.1876-01	0.2150-03	
	36-Kr- 82	Total	JEF-2.2	3637	39.98	36.52	385.8	3.793	5.016
			ENDF/B-VI	3637	40.45	37.07	388.0	3.776	5.020
			JENDL-3.2	3637	46.60	43.42	512.3	3.845	4.977
Elast.		JEF-2.2	3637	9.776	9.772	202.6	2.054	3.897	
		ENDF/B-VI	3637	10.24	10.23	204.7	2.044	3.899	
		JENDL-3.2	3637	18.58	18.57	284.6	2.508	4.104	
Inel.		JEF-2.2	3637				0.6092	1.099	
		ENDF/B-VI	3637				0.6092	1.099	
		JENDL-3.2	3637				0.3394	0.8420	
n,2n		JEF-2.2	3637				1.110	0.4714-03	
		ENDF/B-VI	3637				1.110	0.4712-03	
		JENDL-3.2	3637				0.9618	0.3872-03	
n,3n		JENDL-3.2	3637					0.9723-08	
n,g		JEF-2.2	3637	30.20	26.75	183.1	0.3364-04	0.1851-01	
		ENDF/B-VI	3637	30.23	26.84	183.2	0.3364-04	0.1852-01	
		JENDL-3.2	3637	28.01	24.83	227.6	0.1037-02	0.2947-01	
n,p		JEF-2.2	3637				0.1269-01	0.2079-03	
		ENDF/B-VI	3637				0.1269-01	0.2079-03	
		JENDL-3.2	3637				0.2186-01	0.1093-03	
n,d		JEF-2.2	3637				0.6103-02	0.2756-05	
		ENDF/B-VI	3637				0.6100-02	0.2755-05	
		JENDL-3.2	3637				0.5454-04	0.7898-07	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
36-Kr- 82	n,t	JEF-2.2	3637					0.1223-06
		ENDF/B-VI	3637				0.5976-09	0.1223-06
		JENDL-3.2	3637					0.3119-08
	n,He3	JEF-2.2	3637					0.4374-07
		ENDF/B-VI	3637					0.4372-07
	n,a	JEF-2.2	3637				0.7996-03	0.7348-05
		ENDF/B-VI	3637				0.7996-03	0.7348-05
		JENDL-3.2	3637				0.7324-02	0.2867-04
	36-Kr- 83	Total	JEF-2.2	3640	218.2	193.4	335.4	3.511
ENDF/B-VI			3640	219.2	194.1	335.6	3.520	5.191
JENDL-3.2			3640	189.0	167.6	275.0	3.845	4.981
Elast.		JEF-2.2	3640	10.42	10.38	142.9	2.084	3.685
		ENDF/B-VI	3640	10.33	10.29	146.0	2.076	3.693
		JENDL-3.2	3640	9.134	9.106	127.0	1.522	3.767
Inel.		JEF-2.2	3640			0.9465	0.4000-05	1.449
		ENDF/B-VI	3640			0.9464	0.4000-05	1.450
		JENDL-3.2	3640			0.6567	1.319	1.181
n,2n		JEF-2.2	3640				1.410	0.6891-02
		ENDF/B-VI	3640				1.410	0.6889-02
		JENDL-3.2	3640				0.9811	0.3863-02
n,3n		JEF-2.2	3640					0.1116-08
		ENDF/B-VI	3640					0.1116-08
		JENDL-3.2	3640					0.1020-07
n,g		JEF-2.2	3640	207.8	183.1	191.5	0.4057-04	0.3953-01
		ENDF/B-VI	3640	208.5	183.6	188.6	0.4057-04	0.3950-01
		JENDL-3.2	3640	179.9	158.5	147.4	0.1001-02	0.2496-01
n,p		JEF-2.2	3640				0.5124-02	0.1387-03
		ENDF/B-VI	3640				0.5124-02	0.1387-03
		JENDL-3.2	3640				0.1249-01	0.8572-04
n,d		JEF-2.2	3640				0.5905-02	0.2772-05
		ENDF/B-VI	3640				0.5900-02	0.2770-05
		JENDL-3.2	3640				0.1251-02	0.6449-06
n,t		JEF-2.2	3640				0.2690-02	0.1020-05
		ENDF/B-VI	3640				0.2690-02	0.1019-05
		JENDL-3.2	3640				0.9657-06	0.2061-07
n,He3		JEF-2.2	3640				0.2587-04	0.1406-07
		ENDF/B-VI	3640				0.2587-04	0.1406-07
		JENDL-3.2	3640				0.3813-17	0.1089-10
n,a		JEF-2.2	3640				0.6370-03	0.9993-05
		ENDF/B-VI	3640				0.6370-03	0.9993-05
		JENDL-3.2	3640				0.4395-02	0.1442-04

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
36-Kr- 84	Total	JEF-2.2	3643	6.838	6.827	106.3	3.859	5.239
		ENDF/B-VI	3643	6.863	6.843	106.2	3.841	5.247
		JENDL-3.2	3643	6.306	6.294	92.49	3.844	4.976
	Elast.	JEF-2.2	3643	6.750	6.754	102.8	2.114	4.162
		ENDF/B-VI	3643	6.755	6.768	102.7	2.105	4.168
		JENDL-3.2	3643	6.197	6.196	90.13	2.541	4.218
	Inel.	JEF-2.2	3643				0.4392	1.069
		ENDF/B-VI	3643				0.4392	1.069
		JENDL-3.2	3643				0.3347	0.7449
	n,2n	JEF-2.2	3643				1.300	0.7379-03
		ENDF/B-VI	3643				1.300	0.7377-03
		JENDL-3.2	3643				0.9531	0.5017-03
	n,3n	JENDL-3.2	3643					0.9671-07
	n,g	JEF-2.2	3643	0.8296-01	0.7351-01	3.450	0.2160-04	0.7312-02
		ENDF/B-VI	3643	0.8305-01	0.7376-01	3.449	0.2160-04	0.7315-02
		JENDL-3.2	3643	0.1101	0.9753-01	2.364	0.1019-02	0.1012-01
	n,p	JEF-2.2	3643				0.2016-02	0.6125-05
		ENDF/B-VI	3643				0.2016-02	0.6125-05
		JENDL-3.2	3643				0.8014-02	0.1155-04
	n,d	JEF-2.2	3643				0.2970-02	0.1196-05
		ENDF/B-VI	3643				0.2970-02	0.1195-05
JENDL-3.2		3643				0.5521-04	0.1329-06	
n,t	JEF-2.2	3643				0.2310-04	0.8404-07	
	ENDF/B-VI	3643				0.2310-04	0.8400-07	
	JENDL-3.2	3643				0.2093-09	0.6579-08	
n,He3	JEF-2.2	3643					0.1583-09	
	ENDF/B-VI	3643					0.1582-09	
n,a	JEF-2.2	3643				0.1710-03	0.9971-06	
	ENDF/B-VI	3643				0.1710-03	0.6948-06	
	JENDL-3.2	3643				0.2611-02	0.2347-05	
36-Kr- 85	Total	JEF-2.2	3646	5.235	5.060	79.45	4.019	4.757
		ENDF/B-VI	3646	5.336	5.514	82.71	4.036	4.777
		JENDL-3.2	3646	7.975	7.805	93.66	3.845	4.980
	Elast.	JEF-2.2	3646	3.564	3.576	77.66	2.854	4.344
		ENDF/B-VI	3646	3.565	3.564	77.86	2.878	4.349
		JENDL-3.2	3646	6.297	6.295	91.66	2.531	4.505
	Inel.	JEF-2.2	3646				1.154	0.4060
		ENDF/B-VI	3646				1.154	0.4060
		JENDL-3.2	3646				0.1369	0.4554
	n,2n	JENDL-3.2	3646				1.166	0.6940-02
	n,3n	JENDL-3.2	3646					0.1098-06

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
36-Kr- 85	n,g	JEF-2.2	3646	1.662	1.472	1.640	0.2004-02	0.5573-02
		ENDF/B-VI	3646	1.671	1.478	1.645	0.2005-02	0.5583-02
		JENDL-3.2	3646	1.661	1.472	1.771	0.1001-02	0.1025-01
	n,p	JEF-2.2	3646				0.5874-02	0.5897-04
		JENDL-3.2	3646				0.5101-02	0.8206-05
	n,d	JEF-2.2	3646				0.1480-02	0.1122-05
		JENDL-3.2	3646				0.3485-03	0.3488-06
	n,t	JEF-2.2	3646				0.1415-03	0.1040-06
		JENDL-3.2	3646				0.9301-06	0.2515-07
	n,He3	JEF-2.2	3646				0.1797-05	0.8813-09
	n,a	JEF-2.2	3646			0.4560-07	0.2179-02	0.1661-04
		JENDL-3.2	3646				0.1613-02	0.2337-05
36-Kr- 86	Total	JEF-2.2	3649	6.112	6.105	101.1	3.927	5.540
		ENDF/B-VI	3649	6.135	6.119	101.2	3.908	5.544
		JENDL-3.2	3649	6.189	6.188	75.69	3.845	5.118
	Elast.	JEF-2.2	3649	6.050	6.050	101.0	2.171	4.680
		ENDF/B-VI	3649	6.064	6.062	101.1	2.164	4.683
		JENDL-3.2	3649	6.186	6.186	75.67	2.516	4.617
	Inel.	JEF-2.2	3649				0.3433	0.8579
		ENDF/B-VI	3649				0.3433	0.8579
		JENDL-3.2	3649				0.3340	0.4972
	n,2n	JEF-2.2	3649				1.410	0.9944-03
		ENDF/B-VI	3649				1.410	0.9941-03
		JENDL-3.2	3649				0.9841	0.7945-03
	n,3n	JEF-2.2	3649					0.6402-06
		ENDF/B-VI	3649					0.6399-06
		JENDL-3.2	3649					0.3856-06
	n,g	JEF-2.2	3649	0.6151-01	0.5451-01	0.1360	0.5314-05	0.1290-02
		ENDF/B-VI	3649	0.6158-01	0.5470-01	0.1361	0.5314-05	0.1291-02
		JENDL-3.2	3649	0.3001-02	0.2660-02	0.1570-01	0.1002-02	0.1619-02
	n,p	JEF-2.2	3649				0.1864-03	0.1883-06
		ENDF/B-VI	3649				0.1864-03	0.1883-06
		JENDL-3.2	3649				0.5603-02	0.2644-05
	n,d	JEF-2.2	3649				0.1000-02	0.3697-06
		ENDF/B-VI	3649				0.1000-02	0.3695-06
		JENDL-3.2	3649				0.3698-05	0.6500-07
n,t	JEF-2.2	3649					0.3382-07	
	ENDF/B-VI	3649					0.3381-07	
	JENDL-3.2	3649				0.9173-13	0.5245-08	
n,He3	JEF-2.2	3649					0.1006-08	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
36-Kr- 86	n,a	JEF-2.2	3649				0.2080-02	0.5414-05
		JENDL-3.2	3649				0.8306-03	0.5091-06
37-Rb- 85	Total	JEF-2.2	3725	6.818	6.760	117.8	4.019	4.776
		ENDF/B-VI	3725	6.248	6.185	112.4	3.784	4.995
		JENDL-3.2	3725	6.369	6.316	114.5	3.845	4.989
	Elast.	JEF-2.2	3725	6.337	6.338	111.6	2.829	3.846
		ENDF/B-VI	3725	5.765	5.754	106.4	2.112	3.539
		JENDL-3.2	3725	5.889	5.889	106.0	2.400	3.790
	Inel.	JEF-2.2	3725				1.158	0.8980
		ENDF/B-VI	3725				0.3800	1.421
		JENDL-3.2	3725				0.4082	1.169
	n,2n	ENDF/B-VI	3725				1.128	0.5567-03
		JENDL-3.2	3725				0.9865	0.5066-03
	n,3n	JENDL-3.2	3725					0.2697-09
	n,g	JEF-2.2	3725	0.4769	0.4225	6.216	0.7344-03	0.2811-01
		ENDF/B-VI	3725	0.4816	0.4277	5.935	0.7370-03	0.2790-01
		JENDL-3.2	3725	0.4802	0.4256	8.543	0.1009-02	0.2709-01
	n,p	JEF-2.2	3725			0.4734-05	0.2287-01	0.1492-02
		ENDF/B-VI	3725		0.7978-14	0.2857-07	0.5100-01	0.1035-03
		JENDL-3.2	3725				0.1691-01	0.4347-03
	n,d	JEF-2.2	3725				0.3066-02	0.5924-05
		ENDF/B-VI	3725				0.3260-01	0.6294-04
		JENDL-3.2	3725				0.9599-03	0.5426-06
	n,t	JEF-2.2	3725				0.2287-03	0.1716-06
		ENDF/B-VI	3725				0.3940-02	0.2953-05
		JENDL-3.2	3725				0.1940-05	0.3523-07
	n,He3	JEF-2.2	3725				0.1929-05	0.1472-08
		ENDF/B-VI	3725				0.1200-04	0.9127-08
		JENDL-3.2	3725				0.1999-13	0.1746-10
n,a	JEF-2.2	3725			0.9810-07	0.6250-02	0.3638-04	
	ENDF/B-VI	3725		0.1307-12	0.4680-06	0.5800-02	0.2976-04	
	JENDL-3.2	3725				0.5623-02	0.7100-05	
37-Rb- 86	Total	JEF-2.2	3728	8.519	7.969	101.9	4.044	4.831
		ENDF/B-VI	3728	8.686	8.809	120.6	4.061	4.848
	Elast.	JEF-2.2	3728	3.597	3.610	77.90	2.850	3.746
		ENDF/B-VI	3728	3.593	3.592	78.00	2.883	3.750
	Inel.	JEF-2.2	3728				1.173	1.069
		ENDF/B-VI	3728				1.173	1.069

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
37-Rb- 86	n,g	JEF-2.2	3728	4.906	4.346	23.86	0.2156-02	0.1085-01
		ENDF/B-VI	3728	4.930	4.359	23.93	0.2155-02	0.1087-01
	n,p	JEF-2.2	3728			0.3306-05	0.1167-01	0.6867-03
	n,d	JEF-2.2	3728				0.2199-02	0.2645-05
	n,t	JEF-2.2	3728				0.1238-04	0.1209-07
	n,He3	JEF-2.2	3728				0.1883-05	0.1127-08
	n,a	JEF-2.2	3728			0.6497-07	0.3989-02	0.2434-04
37-Rb- 87	Total	JEF-2.2	3731	2.473	2.460	72.51	4.067	4.910
		ENDF/B-VI	3731	4.620	4.600	95.49	3.710	4.988
		JENDL-3.2	3731	4.504	4.491	97.60	3.846	4.996
	Elast.	JEF-2.2	3731	2.353	2.354	70.42	2.888	3.996
		ENDF/B-VI	3731	4.501	4.494	92.78	2.075	3.764
		JENDL-3.2	3731	4.385	4.384	94.91	2.243	4.113
	Inel.	JEF-2.2	3731				1.159	0.9069
		ENDF/B-VI	3731				0.3431	1.213
		JENDL-3.2	3731				0.3475	0.8772
	n,2n	ENDF/B-VI	3731				1.240	0.8126-03
		JENDL-3.2	3731				1.237	0.9200-03
	n,3n	JENDL-3.2	3731					0.1772-07
	n,g	JEF-2.2	3731	0.1201	0.1064	2.072	0.7618-04	0.2860-02
		ENDF/B-VI	3731	0.1162	0.1028	2.689	0.7600-04	0.2842-02
		JENDL-3.2	3731	0.1201	0.1064	2.693	0.1012-02	0.3095-02
	n,p	JEF-2.2	3731				0.1214-01	0.6502-04
		ENDF/B-VI	3731				0.1091-01	0.5647-04
		JENDL-3.2	3731				0.1036-01	0.1185-04
	n,d	JEF-2.2	3731				0.1744-02	0.2068-05
		ENDF/B-VI	3731				0.1460-01	0.1730-04
		JENDL-3.2	3731				0.3079-03	0.2608-06
	n,t	JEF-2.2	3731				0.1501-03	0.1010-06
		ENDF/B-VI	3731				0.1810-02	0.1193-05
JENDL-3.2		3731				0.1724-06	0.1088-07	
n,He3	JEF-2.2	3731				0.1798-05	0.9601-09	
	ENDF/B-VI	3731				0.1570-05	0.8211-09	
n,a	JEF-2.2	3731				0.3338-02	0.9022-05	
	ENDF/B-VI	3731				0.3950-02	0.1101-04	
	JENDL-3.2	3731				0.2867-02	0.1734-05	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
38-Sr- 84	Total	JEF-2.2	3825	4.745	4.654	124.2	6.262	5.061
		ENDF/B-VI	3825	5.462	6.341	124.2	6.280	5.063
	Elast.	JEF-2.2	3825	3.932	3.933	114.0	4.665	4.180
		ENDF/B-VI	3825	3.915	3.914	114.0	4.818	4.182
	Inel.	JEF-2.2	3825				1.460	0.8100
		ENDF/B-VI	3825				1.460	0.8100
	n,g	JEF-2.2	3825	0.8132	0.7206	10.19	0.2020-02	0.6817-01
		ENDF/B-VI	3825	1.553	2.425	10.28	0.2020-02	0.6815-01
	n,p	JEF-2.2	3825				0.1071	0.3277-02
	n,d	JEF-2.2	3825				0.5661-02	0.5887-05
	n,t	JEF-2.2	3825				0.3603-04	0.2211-07
	n,He3	JEF-2.2	3825				0.2125-05	0.2325-08
	n,a	JEF-2.2	3825			0.3963-06	0.2167-01	0.1428-03
	38-Sr- 86	Total	JEF-2.2	3831	5.083	4.759	117.8	4.045
ENDF/B-VI			3831	5.047	4.734	117.7	4.061	4.844
JENDL-3.2			3831	5.198	5.081	148.9	4.334	5.717
Elast.		JEF-2.2	3831	2.240	2.239	112.7	2.830	4.325
		ENDF/B-VI	3831	2.205	2.206	112.6	2.907	4.323
		JENDL-3.2	3831	4.157	4.157	144.1	2.831	4.984
Inel.		JEF-2.2	3831				1.149	0.4892
		ENDF/B-VI	3831				1.149	0.4892
		JENDL-3.2	3831				0.5914	0.7064
n,2n		JENDL-3.2	3831				0.8562	0.2703-03
n,g		JEF-2.2	3831	2.843	2.519	5.092	0.1946-02	0.1798-01
		ENDF/B-VI	3831	2.858	2.527	5.098	0.1948-02	0.1799-01
		JENDL-3.2	3831	1.041	0.9222	4.706	0.1026-02	0.2330-01
n,p		JEF-2.2	3831				0.4755-01	0.7731-03
		JENDL-3.2	3831				0.4303-01	0.6409-03
n,d		JEF-2.2	3831				0.3655-02	0.3332-05
		JENDL-3.2	3831				0.1961-03	0.2126-06
n,t		JEF-2.2	3831				0.2455-04	0.1418-07
		JENDL-3.2	3831				0.2084-09	0.4134-08
n,He3		JEF-2.2	3831				0.2019-05	0.1742-08
n,a	JEF-2.2	3831			0.1268-06	0.9514-02	0.4770-04	
	JENDL-3.2	3831				0.8312-02	0.9637-05	

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
38-Sr- 87	Total	JEF-2.2	3834	19.27	17.53	186.3	4.067	4.906
		ENDF/B-VI	3834	19.28	17.57	186.5	4.084	4.914
		JENDL-3.2	3834	22.95	21.21	216.8	4.334	5.720
	Elast.	JEF-2.2	3834	3.250	3.249	67.93	2.885	4.369
		ENDF/B-VI	3834	3.243	3.242	67.91	2.929	4.367
		JENDL-3.2	3834	6.938	6.935	95.87	2.837	5.113
	Inel.	JEF-2.2	3834				1.146	0.5155
		ENDF/B-VI	3834				1.146	0.5154
		JENDL-3.2	3834				0.2194	0.5912
	n,2n	JENDL-3.2	3834				1.249	0.2635-02
	n,g	JEF-2.2	3834	16.02	14.28	118.3	0.2383-02	0.1950-01
		ENDF/B-VI	3834	16.10	14.34	118.5	0.2384-02	0.1953-01
		JENDL-3.2	3834	16.01	14.27	120.9	0.1002-02	0.1103-01
	n,p	JEF-2.2	3834			0.2783-05	0.2113-01	0.6782-03
		JENDL-3.2	3834				0.1952-01	0.6233-03
	n,d	JEF-2.2	3834				0.2886-02	0.2722-05
		JENDL-3.2	3834				0.1455-02	0.7005-06
	n,t	JEF-2.2	3834				0.2406-03	0.1736-06
		JENDL-3.2	3834				0.2528-06	0.1063-07
	n,He3	JEF-2.2	3834				0.1970-05	0.1470-08
JENDL-3.2		3834				0.1898-14	0.1073-10	
n,a	JEF-2.2	3834			0.1663-06	0.7177-02	0.5947-04	
	JENDL-3.2	3834				0.5761-02	0.3251-04	
38-Sr- 88	Total	JEF-2.2	3837	3.645	3.644	44.01	4.088	4.834
		ENDF/B-VI	3837	3.654	3.652	44.05	4.105	4.843
		JENDL-3.2	3837	5.468	5.467	73.85	4.335	5.635
	Elast.	JEF-2.2	3837	3.637	3.639	43.99	2.935	4.514
		ENDF/B-VI	3837	3.647	3.646	44.12	2.965	4.517
		JENDL-3.2	3837	5.462	5.462	73.80	2.827	5.227
	Inel.	JEF-2.2	3837				1.131	0.3176
		ENDF/B-VI	3837				1.131	0.3176
		JENDL-3.2	3837				0.6108	0.4034
	n,2n	JENDL-3.2	3837				0.8812	0.3330-03
	n,3n	JENDL-3.2	3837					0.7525-11
	n,g	JEF-2.2	3837	0.5807-02	0.5145-02	0.5764-02	0.1595-02	0.1275-02
		ENDF/B-VI	3837	0.5836-02	0.5160-02	0.5770-02	0.1595-02	0.1275-02
		JENDL-3.2	3837	0.5803-02	0.5143-02	0.5309-01	0.1004-02	0.2345-02
	n,p	JEF-2.2	3837				0.1222-01	0.2533-04
		JENDL-3.2	3837				0.1221-01	0.8365-05

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
38-Sr- 88	n,d	JEF-2.2	3837				0.2199-02	0.1838-05
		JENDL-3.2	3837				0.7235-04	0.1279-06
	n,t	JEF-2.2	3837				0.4546-04	0.2453-07
		JENDL-3.2	3837				0.4607-11	0.3643-08
n,He3	JEF-2.2	3837				0.1924-05	0.1196-08	
n,a	JEF-2.2	3837				0.3848-02	0.1002-04	
	JENDL-3.2	3837				0.3282-02	0.1996-05	
38-Sr- 89	Total	JEF-2.2	3840	4.093	4.051	70.51	4.109	5.036
		ENDF/B-VI	3840	4.142	4.256	71.59	4.124	5.046
		JENDL-3.2	3840	6.164	6.140	84.50	4.336	5.714
	Elast.	JEF-2.2	3840	3.665	3.667	69.95	2.951	4.743
		ENDF/B-VI	3840	3.675	3.674	70.15	2.974	4.746
		JENDL-3.2	3840	5.735	5.734	84.03	2.835	5.124
	Incl.	JEF-2.2	3840				1.142	0.2843
		ENDF/B-VI	3840				1.142	0.2843
		JENDL-3.2	3840				0.1013	0.5732
	n,2n	JENDL-3.2	3840				1.388	0.1358-01
	n,3n	JENDL-3.2	3840					0.2526-06
	n,g	JEF-2.2	3840	0.4205	0.3726	0.4907	0.2156-02	0.8180-02
		ENDF/B-VI	3840	0.4228	0.3740	0.4919	0.2156-02	0.8189-02
		JENDL-3.2	3840	0.4203	0.3725	0.4005	0.1001-02	0.2473-02
	n,p	JEF-2.2	3840				0.8190-02	0.2607-04
		JENDL-3.2	3840				0.7100-02	0.4762-05
	n,d	JEF-2.2	3840				0.1731-02	0.1335-05
		JENDL-3.2	3840				0.2220-03	0.2123-06
	n,t	JEF-2.2	3840				0.1637-03	0.1307-06
		JENDL-3.2	3840				0.2101-04	0.4930-07
n,He3	JEF-2.2	3840				0.1838-05	0.1036-08	
n,a	JEF-2.2	3840			0.2540-07	0.2633-02	0.9866-05	
	JENDL-3.2	3840				0.2407-02	0.5393-05	
38-Sr- 90	Total	JEF-2.2	3843	4.607	4.518	58.31	4.131	5.084
		ENDF/B-VI	3843	4.681	4.839	61.02	4.148	5.096
		JENDL-3.2	3843	5.853	5.856	78.94	4.336	5.713
		BROND-2	3890	6.753	6.668	79.18	4.320	5.703
	Elast.	JEF-2.2	3843	3.694	3.708	57.72	2.958	4.403
		ENDF/B-VI	3843	3.706	3.701	57.84	2.975	4.402
		JENDL-3.2	3843	5.838	5.838	78.79	2.834	4.885
		BROND-2	3890	5.837	5.839	78.54	2.674	4.825

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
38-Sr- 90	Inel.	JEF-2.2	3843				1.162	0.6707
		ENDF/B-VI	3843				1.162	0.6707
		JENDL-3.2	3843				0.1402	0.8168
		BROND-2	3890				0.3044	0.8680
	n,2n	JENDL-3.2	3843				1.356	0.4651-02
		BROND-2	3890				1.332	0.4284-02
	n,3n	JENDL-3.2	3843					0.1167-04
		BROND-2	3890					0.9983-05
	n,g	JEF-2.2	3843	0.9011	0.7984	0.4798	0.1506-02	0.5938-02
		ENDF/B-VI	3843	0.9055	0.8008	0.4812	0.1506-02	0.5942-02
		JENDL-3.2	3843	0.1501-01	0.1330-01	0.6666-01	0.1003-02	0.4262-02
		BROND-2	3890	0.9011	0.7984	0.4901	0.9992-03	0.3426-02
	n,p	JEF-2.2	3843				0.4853-02	0.7092-05
		JENDL-3.2	3843				0.4321-02	0.2117-05
		BROND-2	3890				0.1860-02	0.1043-05
	n,d	JEF-2.2	3843				0.1364-02	0.1009-05
		JENDL-3.2	3843				0.1073-04	0.6534-07
	n,t	JEF-2.2	3843				0.9452-05	0.6426-08
		JENDL-3.2	3843				0.1450-05	0.2339-07
	n,He3	JEF-2.2	3843				0.1796-05	0.8798-09
n,a	JEF-2.2	3843			0.8178-08	0.1524-02	0.3506-05	
	JENDL-3.2	3843				0.1481-02	0.1195-05	
	BROND-2	3890				0.4325-02	0.7987-05	
39-Y - 89	Total	JEF-2.2	3925	9.020	8.749	94.80	3.863	5.633
		ENDF/B-VI	3925	9.044	8.769	94.90	3.858	5.642
		JENDL-3.2	3925	9.035	8.892	87.54	4.336	5.704
	Elast.	JEF-2.2	3925	7.731	7.608	93.90	2.246	4.916
		ENDF/B-VI	3925	7.740	7.628	93.98	2.244	4.918
		JENDL-3.2	3925	7.757	7.756	86.71	2.725	5.097
	Inel.	JEF-2.2	3925				0.6494	0.7112
		ENDF/B-VI	3925				0.6494	0.7112
		JENDL-3.2	3925				0.5775	0.5972
	n,2n	JEF-2.2	3925				0.8320	0.2667-03
		ENDF/B-VI	3925				0.8320	0.2667-03
		JENDL-3.2	3925				0.8475	0.2697-03
	n,g	JEF-2.2	3925	1.287	1.140	0.8964	0.6943-03	0.4759-02
		ENDF/B-VI	3925	1.292	1.143	0.8957	0.6976-03	0.4753-02
		JENDL-3.2	3925	1.278	1.133	0.8360	0.1059-02	0.6320-02
	n,p	JEF-2.2	3925				0.2250-01	0.2609-03
		ENDF/B-VI	3925				0.2250-01	0.2609-03
		JENDL-3.2	3925				0.2593-01	0.2363-03

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
39-Y - 89	n,d	JEF-2.2	3925				0.7700-02	0.2486-04	
		ENDF/B-VI	3925				0.7700-02	0.2486-04	
		JENDL-3.2	3925				0.1871-02	0.9746-06	
	n,t	JEF-2.2	3925				0.1000-03	0.5988-07	
		ENDF/B-VI	3925				0.1000-03	0.5988-07	
		JENDL-3.2	3925				0.6100-06	0.1027-07	
	n,He3	JEF-2.2	3925				0.1000-03	0.5626-07	
		ENDF/B-VI	3925				0.1000-03	0.5626-07	
		JENDL-3.2	3925				0.1376-12	0.2213-10	
	n,a	JEF-2.2	3925		0.1361-16	0.2678-16	0.5203-10	0.5430-02	0.5524-05
		ENDF/B-VI	3925		0.1315-16	0.2631-16	0.5200-10	0.5430-02	0.5524-05
		JENDL-3.2	3925					0.4482-02	0.4341-05
39-Y - 90	Total	JEF-2.2	3928	7.223	6.839	88.24	4.131	5.089	
		ENDF/B-VI	3928	7.365	7.567	92.88	4.148	5.100	
	Elast.	JEF-2.2	3928	3.705	3.721	83.49	2.937	3.962	
		ENDF/B-VI	3928	3.706	3.701	83.70	2.970	3.964	
	Inel.	JEF-2.2	3928				1.166	1.100	
		ENDF/B-VI	3928				1.166	1.100	
	n,g	JEF-2.2	3928	3.505	3.105	4.642	0.1917-02	0.1765-01	
		ENDF/B-VI	3928	3.522	3.116	4.654	0.1919-02	0.1768-01	
	n,p	JEF-2.2	3928			0.1643-05	0.1630-01	0.4206-03	
	n,d	JEF-2.2	3928				0.2626-02	0.3884-05	
	n,t	JEF-2.2	3928				0.1651-04	0.2211-07	
	n,He3	JEF-2.2	3928				0.1966-05	0.1369-08	
	n,a	JEF-2.2	3928			0.6904-07	0.4855-02	0.2515-04	
	39-Y - 91	Total	JEF-2.2	3931	5.135	4.989	77.50	4.148	5.153
ENDF/B-VI			3931	5.229	5.403	80.16	4.162	5.160	
JENDL-3.2			3931	7.151	7.004	91.92	4.337	5.713	
Elast.		JEF-2.2	3931	3.723	3.733	75.75	2.838	4.144	
		ENDF/B-VI	3931	3.733	3.727	75.93	2.856	4.144	
		JENDL-3.2	3931	5.733	5.733	88.97	2.835	4.636	
Inel.		JEF-2.2	3931				1.305	0.9982	
		ENDF/B-VI	3931				1.305	0.9982	
		JENDL-3.2	3931				0.2207	1.059	
n,2n		JENDL-3.2	3931				1.264	0.3885-02	
n,3n		JENDL-3.2	3931					0.6660-05	

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
39-Y - 91	n,g	JEF-2.2	3931	1.402	1.242	1.625	0.1663-02	0.6761-02	
		ENDF/B-VI	3931	1.409	1.247	1.629	0.1657-02	0.6773-02	
		JENDL-3.2	3931	1.401	1.242	2.765	0.1006-02	0.1255-01	
	n,p	JENDL-3.2	3931				0.9747-02	0.1447-04	
	n,d	JEF-2.2	3931				0.2036-02	0.2979-05	
		JENDL-3.2	3931				0.1096-02	0.5780-06	
	n,t	JEF-2.2	3931				0.1625-03	0.1579-06	
		JENDL-3.2	3931				0.1602-03	0.1286-06	
	n,He3	JEF-2.2	3931				0.1922-05	0.1190-08	
	n,a	JEF-2.2	3931			0.2496-07	0.2991-02	0.9738-05	
		JENDL-3.2	3931				0.2984-02	0.4608-05	
	40-Zr- 0	Total	JEF-2.2	4000	6.674	6.656	96.01	3.888	5.953
			ENDF/B-VI	4000	6.627	6.619	97.07	3.871	5.751
JENDL-3.2			4000	6.638	6.617	94.63	3.843	5.749	
BROND-2			4000	6.200	6.178	90.57	3.947	5.896	
CENDL-2			2400	6.598	6.580	96.67	3.866	5.748	
Elast.		JEF-2.2	4000	6.494	6.493	95.10	2.150	5.366	
		ENDF/B-VI	4000	6.440	6.453	96.15	2.293	5.099	
		JENDL-3.2	4000	6.444	6.444	93.47	2.153	5.063	
		BROND-2	4000	6.008	6.010	89.62	2.380	5.234	
		CENDL-2	2400	6.417	6.416	95.74	2.135	5.102	
Inel.		JEF-2.2	4000				0.5000	0.5787	
		ENDF/B-VI	4000				0.6170	0.6406	
		JENDL-3.2	4000				0.6400	0.6751	
		BROND-2	4000				0.5286	0.6494	
		CENDL-2	2400				0.6703	0.6361	
n,2n		JEF-2.2	4000				1.200	0.2100-02	
		ENDF/B-VI	4000				0.9202	0.1833-02	
		JENDL-3.2	4000				0.9723	0.1682-02	
		BROND-2	4000				0.9664	0.1994-02	
		CENDL-2	2400				0.9080	0.1545-02	
n,3n		JEF-2.2	4000					0.2713-05	
		JENDL-3.2	4000					0.1021-05	
		CENDL-2	2400					0.1361-05	
n,g		JEF-2.2	4000	0.1843	0.1633	0.9104	0.5550-03	0.4285-02	
		ENDF/B-VI	4000	0.1864	0.1655	0.9197	0.8300-03	0.9480-02	
		JENDL-3.2	4000	0.1944	0.1723	1.160	0.9941-03	0.8607-02	
		BROND-2	4000	0.1900	0.1683	0.9384	0.1066-02	0.1031-01	
		CENDL-2	2400	0.1856	0.1644	0.9299	0.9000-03	0.8270-02	
n,p		JEF-2.2	4000				0.3700-01	0.2363-02	
		ENDF/B-VI	4000				0.3150-01	0.2705-03	
		JENDL-3.2	4000				0.2903-01	0.1289-03	
		BROND-2	4000				0.3204-01	0.2605-03	
		CENDL-2	2400				0.2630-01	0.2056-03	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
40-Zr- 0	n,d	JENDL-3.2	4000				0.9645-03	0.5112-06	
		CENDL-2	2400				0.9705-03	0.4092-06	
	n,t	JENDL-3.2	4000				0.1555-04	0.2016-07	
	n,He3	JENDL-3.2	4000				0.2644-09	0.5429-10	
	n,a	ENDF/B-VI	4000				0.7800-02	0.3369-04	
		JENDL-3.2	4000				0.1041-01	0.6064-04	
		BROND-2	4000				0.9354-02	0.4538-04	
		CENDL-2	2400				0.5745-02	0.1866-03	
	40-Zr- 90	Total	JEF-2.2	4025	5.880	5.880	83.46	4.002	5.406
			ENDF/B-VI	4025	5.790	5.787	82.16	3.883	5.740
			JENDL-3.2	4025	5.406	5.405	77.34	4.336	5.701
			BROND-2	4090	5.443	5.443	78.26	3.899	5.303
Elast.		JEF-2.2	4025	5.868	5.871	83.30	2.254	4.990	
		ENDF/B-VI	4025	5.783	5.775	82.14	2.619	5.323	
		JENDL-3.2	4025	5.395	5.395	77.20	2.673	5.218	
		BROND-2	4090	5.430	5.432	78.10	2.350	4.845	
Inel.		JEF-2.2	4025				1.686	0.4062	
		ENDF/B-VI	4025				0.6100	0.4057	
		JENDL-3.2	4025				0.9257	0.4737	
		BROND-2	4090				0.8312	0.4502	
n,2n		ENDF/B-VI	4025				0.6070	0.1821-03	
		JENDL-3.2	4025				0.6113	0.1754-03	
		BROND-2	4090				0.6150	0.1707-03	
n,g		JEF-2.2	4025	0.1108-01	0.9817-02	0.1355	0.4020-04	0.8718-02	
		ENDF/B-VI	4025	0.1132-01	0.1001-01	0.1343	0.8300-03	0.9393-02	
		JENDL-3.2	4025	0.1113-01	0.9864-02	0.1405	0.1030-02	0.7896-02	
		BROND-2	4090	0.1157-01	0.1025-01	0.1311	0.1056-02	0.6375-02	
n,p		JEF-2.2	4025				0.3634-01	0.3652-03	
		ENDF/B-VI	4025				0.4400-01	0.4422-03	
		JENDL-3.2	4025				0.4104-01	0.2127-03	
		BROND-2	4090				0.4575-01	0.4770-03	
n,d		JEF-2.2	4025				0.8272-02	0.4137-05	
		JENDL-3.2	4025				0.1120-02	0.5538-06	
n,t		JEF-2.2	4025				0.2958-04	0.1856-07	
		JENDL-3.2	4025				0.1548-08	0.5765-08	
n,He3		JEF-2.2	4025				0.2102-05	0.2059-08	
		JENDL-3.2	4025				0.3771-09	0.1003-09	
n,a		JEF-2.2	4025				0.1213-01	0.2196-04	
		ENDF/B-VI	4025				0.3100-02	0.5613-05	
		JENDL-3.2	4025				0.8385-02	0.1563-04	
		BROND-2	4090				0.1130-01	0.8212-05	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
40-Zr- 91	Total	JEF-2.2	4028	11.93	11.79	157.9	4.041	5.682
		ENDF/B-VI	4028	12.10	11.98	156.1	3.883	5.751
		JENDL-3.2	4028	11.89	11.75	150.8	4.337	5.716
		BROND-2	4091	11.82	11.68	147.9	3.931	5.420
	Elast.	JEF-2.2	4028	10.76	10.76	153.1	2.341	5.041
		ENDF/B-VI	4028	10.94	10.91	151.2	2.028	4.948
		JENDL-3.2	4028	10.65	10.64	143.9	2.631	5.025
		BROND-2	4091	10.61	10.60	143.0	2.378	4.884
	Incl.	JEF-2.2	4028				0.1296	0.6287
		ENDF/B-VI	4028				0.6274	0.7849
		JENDL-3.2	4028				0.3603	0.6749
		BROND-2	4091				0.2022	0.5155
	n,2n	JEF-2.2	4028				1.509	0.3832-02
		ENDF/B-VI	4028				1.159	0.6057-02
		JENDL-3.2	4028				1.304	0.3206-02
		BROND-2	4091				1.301	0.6212-02
	n,3n	JENDL-3.2	4028					0.2788-08
	n,g	JEF-2.2	4028	1.165	1.032	4.865	0.1239-02	0.8752-02
		ENDF/B-VI	4028	1.191	1.056	4.850	0.8300-03	0.9799-02
		JENDL-3.2	4028	1.248	1.106	6.887	0.1002-02	0.1172-01
		BROND-2	4091	1.211	1.073	4.951	0.1068-02	0.1199-01
	n,p	JEF-2.2	4028				0.2571-01	0.3546-03
		ENDF/B-VI	4028				0.3200-01	0.2389-03
		JENDL-3.2	4028				0.2738-01	0.1196-03
		BROND-2	4091				0.3100-01	0.8747-04
	n,d	JEF-2.2	4028				0.1305-01	0.5870-05
		JENDL-3.2	4028				0.2356-02	0.1220-05
	n,t	JEF-2.2	4028				0.2513-03	0.2418-06
JENDL-3.2		4028				0.8394-04	0.3951-07	
n,He3	JEF-2.2	4028				0.2053-05	0.1838-08	
	JENDL-3.2	4028				0.6271-09	0.2407-10	
n,a	JEF-2.2	4028	0.1256-12	0.2472-12	0.4806-06	0.9924-02	0.1615-03	
	ENDF/B-VI	4028				0.3370-01	0.2849-03	
	JENDL-3.2	4028				0.7865-02	0.1422-03	
	BROND-2	4091				0.1170-01	0.2882-03	
40-Zr- 92	Total	JEF-2.2	4031	5.604	5.579	99.61	4.079	5.543
		ENDF/B-VI	4031	5.479	5.457	101.0	3.883	5.768
		JENDL-3.2	4031	7.379	7.353	113.5	4.337	5.730
		BROND-2	4092	5.101	5.079	94.27	3.986	5.534
	Elast.	JEF-2.2	4031	5.386	5.385	99.00	2.334	4.676
		ENDF/B-VI	4031	5.272	5.262	100.4	2.033	4.904
		JENDL-3.2	4031	7.150	7.149	112.9	2.599	4.729
		BROND-2	4092	4.885	4.885	93.66	2.333	4.530

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
40-Zr- 92	Inel.	JEF-2.2	4031				1.717	0.8526	
		ENDF/B-VI	4031				0.6154	0.8513	
		JENDL-3.2	4031				0.3807	0.9745	
		BROND-2	4092				0.3206	0.9825	
	n,2n	ENDF/B-VI	4031				1.206	0.2143-02	
		JENDL-3.2	4031				1.324	0.2413-02	
		BROND-2	4092				1.288	0.2263-02	
	n,3n	JENDL-3.2	4031					0.1050-05	
	n,g	JEF-2.2	4031	0.2192	0.1942	0.6071	0.7028-04	0.1207-01	
		ENDF/B-VI	4031	0.2198	0.1952	0.6098	0.8300-03	0.9622-02	
		JENDL-3.2	4031	0.2293	0.2032	0.6203	0.1020-02	0.1949-01	
		BROND-2	4092	0.2194	0.1944	0.6204	0.1106-02	0.1728-01	
	n,p	JEF-2.2	4031				0.1808-01	0.4542-04	
		ENDF/B-VI	4031				0.2030-01	0.5101-04	
		JENDL-3.2	4031				0.1958-01	0.2963-04	
		BROND-2	4092				0.1825-01	0.2359-04	
	n,d	JEF-2.2	4031				0.1526-02	0.9782-06	
		JENDL-3.2	4031				0.6922-03	0.4548-06	
	n,t	JEF-2.2	4031				0.1825-04	0.1472-07	
		JENDL-3.2	4031				0.2746-04	0.4575-07	
	n,He3	JEF-2.2	4031				0.2007-05	0.1630-08	
	n,a	JEF-2.2	4031				0.8000-02	0.2142-04	
		ENDF/B-VI	4031				0.9600-02	0.2570-04	
		JENDL-3.2	4031				0.9217-02	0.6444-04	
		BROND-2	4092				0.8000-02	0.1879-04	
	40-Zr- 93	Total	JEF-2.2	4034	7.693	7.490	181.2	4.124	5.623
			ENDF/B-VI	4034	6.417	6.597	131.7	4.192	5.259
JENDL-3.2			4034	7.924	7.670	136.8	4.338	5.716	
BROND-2			4093	5.091	5.017	141.1	4.003	5.712	
Elast.		JEF-2.2	4034	5.913	5.911	148.1	2.386	4.549	
		ENDF/B-VI	4034	3.792	3.783	78.98	3.002	4.506	
		JENDL-3.2	4034	5.684	5.684	118.6	2.829	4.777	
		BROND-2	4093	4.452	4.453	125.7	2.374	4.909	
Inel.		JEF-2.2	4034				0.4105-01	1.052	
		ENDF/B-VI	4034				1.187	0.7235	
		JENDL-3.2	4034				0.1121	0.9098	
		BROND-2	4093				0.1759	0.7726	
n,2n		JEF-2.2	4034				1.690	0.7301-02	
		JENDL-3.2	4034				1.380	0.1092-01	
		BROND-2	4093				1.430	0.8718-02	
n,3n		JENDL-3.2	4034					0.4062-05	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
40-Zr- 93	n,g	JEF-2.2	4034	1.782	1.579	33.01	0.1008-02	0.1459-01	
		ENDF/B-VI	4034	2.516	2.225	28.04	0.2023-02	0.2108-01	
		JENDL-3.2	4034	2.240	1.984	18.12	0.1000-02	0.1497-01	
		BROND-2	4093	0.6368	0.5643	15.36	0.1059-02	0.2026-01	
	n,p	JEF-2.2	4034				0.1232-02	0.9275-05	
		JENDL-3.2	4034				0.1075-01	0.1130-04	
		BROND-2	4093				0.1363-01	0.8213-04	
	n,d	JEF-2.2	4034				0.2250-02	0.2106-05	
		JENDL-3.2	4034				0.5707-03	0.2973-06	
	n,t	JEF-2.2	4034				0.1686-03	0.1489-06	
		JENDL-3.2	4034				0.7361-04	0.7028-07	
	n,He3	JEF-2.2	4034				0.1963-05	0.1425-08	
	n,a	JEF-2.2	4034				0.8271-03	0.2135-04	
		JENDL-3.2	4034				0.3450-02	0.2631-04	
		BROND-2	4093				0.6371-02	0.1535-04	
	40-Zr- 94	Total	JEF-2.2	4037	6.651	6.645	94.41	4.156	5.680
			ENDF/B-VI	4037	6.606	6.621	95.71	3.883	5.778
			JENDL-3.2	4037	6.235	6.229	89.36	4.338	5.730
			BROND-2	4094	5.912	5.906	84.68	4.056	5.685
		Elast.	JEF-2.2	4037	6.604	6.602	94.14	2.391	4.789
ENDF/B-VI			4037	6.583	6.577	95.40	1.894	4.703	
JENDL-3.2			4037	6.185	6.185	89.10	2.632	4.728	
BROND-2			4094	5.863	5.862	84.41	2.329	4.654	
Inel.		JEF-2.2	4037				1.747	0.8830	
		ENDF/B-VI	4037				0.6398	1.059	
		JENDL-3.2	4037				0.2970	0.9834	
		BROND-2	4094				0.3124	1.015	
n,2n		ENDF/B-VI	4037				1.333	0.3215-02	
		JENDL-3.2	4037				1.396	0.3802-02	
		BROND-2	4094				1.395	0.3668-02	
n,3n		JENDL-3.2	4037					0.3641-05	
n,g		JEF-2.2	4037	0.4886-01	0.4330-01	0.2787	0.2076-04	0.7318-02	
		ENDF/B-VI	4037	0.4924-01	0.4372-01	0.2666	0.8300-03	0.9447-02	
		JENDL-3.2	4037	0.4983-01	0.4416-01	0.2599	0.1002-02	0.1245-01	
		BROND-2	4094	0.4983-01	0.4415-01	0.2677	0.1106-02	0.1095-01	
n,p		JEF-2.2	4037				0.9832-02	0.1392-04	
		ENDF/B-VI	4037				0.1010-01	0.1430-04	
		JENDL-3.2	4037				0.8114-02	0.5228-05	
		BROND-2	4094				0.1000-01	0.5771-05	
n,d		JEF-2.2	4037				0.1782-02	0.1499-05	
		JENDL-3.2	4037				0.2982-04	0.6744-07	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
40-Zr- 94	n,t	JEF-2.2	4037				0.1205-04	0.9266-08
		JENDL-3.2	4037				0.8044-05	0.2608-07
	n,He3	JEF-2.2	4037				0.1920-05	0.1221-08
	n,a	JEF-2.2	4037				0.3531-02	0.5028-05
		ENDF/B-VI	4037				0.4590-02	0.6536-05
		JENDL-3.2	4037				0.4171-02	0.7524-05
		BROND-2	4094				0.5000-02	0.2989-04
40-Zr- 95	Total	JEF-2.2	4040	5.647	5.621	132.3	4.203	5.723
		ENDF/B-VI	4040	4.378	4.498	78.06	4.234	5.341
		JENDL-3.2	4040	6.949	6.822	103.8	4.338	5.713
		BROND-2	4095	4.373	4.484	78.19	4.078	6.001
	Elast.	JEF-2.2	4040	5.423	5.422	126.6	2.434	4.945
		ENDF/B-VI	4040	3.842	3.839	71.42	3.032	4.591
		JENDL-3.2	4040	5.737	5.735	95.97	2.833	5.003
		BROND-2	4095	3.829	3.828	72.66	2.470	5.264
	Inel.	JEF-2.2	4040				0.2702-01	0.7541
		ENDF/B-VI	4040				1.198	0.6984
		JENDL-3.2	4040				0.1046	0.6672
		BROND-2	4095				0.1444	0.6962
	n,2n	JEF-2.2	4040				1.738	0.9609-02
		JENDL-3.2	4040				1.394	0.1352-01
		BROND-2	4095				1.450	0.1114-01
	n,3n	JENDL-3.2	4040					0.8490-05
	n,g	JEF-2.2	4040	0.2252	0.1996	5.754	0.2007-02	0.1356-01
		ENDF/B-VI	4040	0.4931	0.4362	5.199	0.2038-02	0.3845-01
		JENDL-3.2	4040	1.201	1.064	7.652	0.1001-02	0.2736-01
		BROND-2	4095	0.4906	0.4347	4.032	0.1021-02	0.2503-01
	n,p	JEF-2.2	4040				0.4004-03	0.1154-05
		JENDL-3.2	4040				0.4358-02	0.2223-05
		BROND-2	4095				0.6510-02	0.1906-04
	n,d	JEF-2.2	4040				0.1297-02	0.1074-05
		JENDL-3.2	4040				0.1067-03	0.9290-07
	n,t	JEF-2.2	4040				0.1277-03	0.1081-06
		JENDL-3.2	4040				0.7278-05	0.2780-07
	n,He3	JEF-2.2	4040				0.1836-05	0.1028-08
	n,a	JEF-2.2	4040				0.2649-03	0.8721-06
		JENDL-3.2	4040				0.1344-02	0.1210-05
		BROND-2	4095				0.3368-02	0.3408-05

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
40-Zr- 96	Total	JEF-2.2	4043	6.833	6.831	107.7	4.240	5.734
		ENDF/B-VI	4043	6.753	6.738	108.1	3.883	5.757
		JENDL-3.2	4043	6.186	6.184	104.1	4.339	5.769
		BROND-2	4096	5.888	5.887	98.49	4.126	5.782
	Elast.	JEF-2.2	4043	6.813	6.811	102.1	2.454	5.057
		ENDF/B-VI	4043	6.729	6.723	102.4	1.862	5.252
		JENDL-3.2	4043	6.164	6.163	98.26	2.608	5.123
		BROND-2	4096	5.868	5.867	92.79	2.486	5.153
	Inel.	JEF-2.2	4043				0.3885-01	0.6544
		ENDF/B-VI	4043				0.5719	0.4891
		JENDL-3.2	4043				0.2293	0.6282
		BROND-2	4096				0.1702	0.5940
	n,2n	JEF-2.2	4043				1.740	0.6047-02
		ENDF/B-VI	4043				1.441	0.4640-02
		JENDL-3.2	4043				1.495	0.5606-02
		BROND-2	4096				1.460	0.5609-02
	n,3n	JENDL-3.2	4043					0.7419-05
	n,g	JEF-2.2	4043	0.2301-01	0.2039-01	5.579	0.1663-02	0.1447-01
		ENDF/B-VI	4043	0.2325-01	0.2065-01	5.577	0.8300-03	0.9297-02
		JENDL-3.2	4043	0.2281-01	0.2022-01	5.833	0.1001-02	0.7405-02
		BROND-2	4096	0.2291-01	0.2031-01	5.705	0.1056-02	0.2842-01
	n,p	JEF-2.2	4043				0.2998-02	0.3508-05
		JENDL-3.2	4043				0.2602-02	0.1216-05
		BROND-2	4096				0.4500-02	0.2761-05
	n,d	JEF-2.2	4043				0.1036-02	0.7767-06
		JENDL-3.2	4043				0.3969-06	0.1744-07
	n,t	JEF-2.2	4043				0.8105-05	0.5649-08
		JENDL-3.2	4043				0.1220-05	0.1467-07
n,He3	JEF-2.2	4043				0.3638-06	0.2465-09	
n,a	JEF-2.2	4043				0.1856-02	0.2020-05	
	ENDF/B-VI	4043				0.4560-02	0.4962-05	
	JENDL-3.2	4043				0.2276-02	0.1322-05	
	BROND-2	4096				0.4200-02	0.4235-05	
41-Nb- 93	Total	JEF-2.2	4125	7.216	7.087	91.70	3.980	5.753
		ENDF/B-VI	4125	7.533	7.371	95.44	3.971	5.789
		JENDL-3.2	4125	7.504	7.374	99.63	3.973	5.903
		BROND-2	4193	7.641	7.511	100.2	4.006	5.593
		CENDL-2	2411	7.524	7.327	95.31	4.017	5.801
	Elast.	JEF-2.2	4125	6.074	6.072	82.32	2.292	4.426
		ENDF/B-VI	4125	6.372	6.338	85.69	2.111	4.530
		JENDL-3.2	4125	6.354	6.354	90.38	2.223	4.649
		BROND-2	4193	6.511	6.514	90.41	2.205	4.330
		CENDL-2	2411	6.361	6.299	85.54	2.242	4.525

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
41-Nb- 93	Inel.	JEF-2.2	4125			0.6947-03	0.4160	1.298
		ENDF/B-VI	4125			0.3280-03	0.4400	1.228
		JENDL-3.2	4125			0.2717-03	0.3498	1.222
		BROND-2	4193			0.4051-03	0.3649	1.234
		CENDL-2	2411			0.5216-03	0.4360	1.244
	n,2n	JEF-2.2	4125				1.215	0.1697-02
		ENDF/B-VI	4125				1.356	0.1957-02
		JENDL-3.2	4125				1.335	0.2270-02
		BROND-2	4193				1.351	0.1936-02
		CENDL-2	2411				1.245	0.1617-02
	n,3n	JEF-2.2	4125					0.1130-05
		ENDF/B-VI	4125					0.5851-06
		JENDL-3.2	4125					0.7514-06
		BROND-2	4193					0.3398-06
		CENDL-2	2411					0.5563-06
	n,g	JEF-2.2	4125	1.146	1.016	9.380	0.8000-03	0.2638-01
		ENDF/B-VI	4125	1.161	1.033	9.747	0.5600-03	0.2784-01
		JENDL-3.2	4125	1.149	1.018	9.250	0.1002-02	0.2915-01
		BROND-2	4193	1.125	0.9970	9.806	0.8000-03	0.2654-01
		CENDL-2	2411	1.156	1.026	9.775	0.8351-03	0.2872-01
	n,p	JEF-2.2	4125				0.4000-01	0.6331-03
		ENDF/B-VI	4125	0.4653-12	0.9309-12	0.1840-05	0.3440-01	0.2800-03
		JENDL-3.2	4125			0.6687-10	0.3737-01	0.3187-03
		BROND-2	4193	0.5679-13	0.1118-12	0.2174-06	0.2160-01	0.4334-03
		CENDL-2	2411	0.4518-12	0.8894-12	0.1729-05	0.4517-01	0.5182-03
	n,d	JEF-2.2	4125				0.3946-02	0.8628-05
		ENDF/B-VI	4125				0.7400-02	0.2188-04
		JENDL-3.2	4125				0.5913-02	0.5161-05
		BROND-2	4193				0.2240-01	0.2496-04
		CENDL-2	2411				0.7490-02	0.8280-05
	n,t	JEF-2.2	4125				0.2980-03	0.3264-06
		ENDF/B-VI	4125				0.2810-03	0.1051-06
		BROND-2	4193				0.2150-03	0.1255-06
		CENDL-2	2411				0.2764-03	0.1274-06
	n,He3	JEF-2.2	4125				0.2230-05	0.2185-08
		BROND-2	4193				0.1345-05	0.1601-07
	n,a	JEF-2.2	4125				0.9200-02	0.7112-04
		ENDF/B-VI	4125	0.3794-12	0.7589-12	0.1500-05	0.8800-02	0.1112-03
		JENDL-3.2	4125			0.6927-07	0.7169-02	0.1312-03
		BROND-2	4193	0.2412-11	0.4747-11	0.9231-05	0.9174-02	0.2171-03
CENDL-2		2411	0.3490-15	0.6870-15	0.1336-08	0.9456-02	0.6774-04	
41-Nb- 94	Total	JEF-2.2	4128	17.18	15.63	207.2	4.213	5.282
		ENDF/B-VI	4128	17.19	15.68	207.5	4.205	5.290
		JENDL-3.2	4128	22.26	20.45	236.2	4.338	5.722

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
41-Nb- 94	Elast.	JEF-2.2	4128	3.561	3.559	90.14	2.986	3.734
		ENDF/B-VI	4128	3.574	3.565	89.29	3.010	3.739
		JENDL-3.2	4128	6.488	6.485	110.8	2.827	4.134
	Inel.	JEF-2.2	4128			0.7115-01	1.195	1.531
		ENDF/B-VI	4128			0.7115-01	1.195	1.531
		JENDL-3.2	4128			0.1060	0.1573	1.562
	n,2n	JENDL-3.2	4128				1.311	0.6922-02
	n,3n	JENDL-3.2	4128					0.2050-05
	n,g	JEF-2.2	4128	13.62	12.07	116.8	0.2084-02	0.1307-01
		ENDF/B-VI	4128	13.69	12.12	117.2	0.2086-02	0.1310-01
		JENDL-3.2	4128	15.77	13.96	125.3	0.1001-02	0.1796-01
	n,p	JEF-2.2	4128				0.2054-01	0.6296-03
		JENDL-3.2	4128				0.2141-01	0.3752-03
	n,d	JEF-2.2	4128				0.3101-02	0.5620-05
		JENDL-3.2	4128				0.4537-02	0.2039-05
	n,t	JEF-2.2	4128				0.2062-04	0.3101-07
		JENDL-3.2	4128				0.6103-03	0.2790-06
	n,He3	JEF-2.2	4128				0.2047-05	0.1871-08
		JENDL-3.2	4128				0.1337-08	0.3098-09
	n,a	JEF-2.2	4128			0.2533-06	0.6548-02	0.7841-04
JENDL-3.2		4128				0.6260-02	0.1016-03	
41-Nb- 95	Total	JEF-2.2	4131	6.748	6.547	190.0	4.204	5.726
		ENDF/B-VI	4131	5.438	5.605	100.7	4.234	5.340
		JENDL-3.2	4131	12.77	11.99	139.8	4.338	5.714
		BROND-2	4195	5.422	5.589	100.4	4.236	5.331
	Elast.	JEF-2.2	4131	4.977	4.976	122.1	2.413	4.594
		ENDF/B-VI	4131	3.842	3.839	76.83	3.106	4.627
		JENDL-3.2	4131	5.731	5.732	98.31	2.830	4.835
		BROND-2	4195	3.829	3.828	83.08	2.611	4.389
	Inel.	JEF-2.2	4131				0.5159-01	1.074
		ENDF/B-VI	4131				1.124	0.6337
		JENDL-3.2	4131				0.1579	0.8058
		BROND-2	4195				0.2750	0.9103
	n,2n	JEF-2.2	4131				1.714	0.3508-02
		JENDL-3.2	4131				1.321	0.2900-02
		BROND-2	4195				1.331	0.2798-02
	n,3n	JENDL-3.2	4131					0.3512-05
		BROND-2	4195					0.2616-05

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
41-Nb- 95	n,g	JEF-2.2	4131	1.771	1.571	67.91	0.3438-02	0.5376-01	
		ENDF/B-VI	4131	1.509	1.335	21.64	0.2081-02	0.6519-01	
		JENDL-3.2	4131	7.005	6.208	41.44	0.1007-02	0.6835-01	
		BROND-2	4195	1.502	1.331	15.37	0.9992-03	0.2569-01	
	n,p	JEF-2.2	4131				0.1515-01	0.2237-03	
		JENDL-3.2	4131				0.1514-01	0.6650-04	
		BROND-2	4195				0.1314-01	0.3068-04	
	n,d	JEF-2.2	4131				0.2416-02	0.4153-05	
		JENDL-3.2	4131				0.1223-02	0.6052-06	
	n,t	JEF-2.2	4131				0.1832-03	0.1888-06	
		JENDL-3.2	4131				0.2103-03	0.1438-06	
	n,He3	JEF-2.2	4131				0.2003-05	0.1573-08	
		JENDL-3.2	4131				0.2988-13	0.1376-10	
	n,a	JEF-2.2	4131			0.4689-07	0.4066-02	0.1749-04	
		JENDL-3.2	4131				0.4123-02	0.2530-04	
		BROND-2	4195				0.4119-02	0.4921-04	
	42-Mo- 0	Total	JEF-2.2	4200	8.136	7.836	137.6	4.108	5.855
			ENDF/B-VI	4200	7.717	7.469	138.9	3.919	5.747
			JENDL-3.2	4200	8.097	7.802	144.6	4.072	5.889
			CENDL-2	2420	8.102	7.804	144.6	4.048	5.796
		Elast.	JEF-2.2	4200	5.558	5.560	113.2	2.389	4.719
ENDF/B-VI			4200	5.048	5.045	109.5	2.050	4.543	
JENDL-3.2			4200	5.512	5.512	119.1	2.272	4.703	
CENDL-2			2420	5.518	5.517	119.1	2.720	4.800	
Inel.		JEF-2.2	4200				0.1957	1.109	
		ENDF/B-VI	4200				0.3500	1.165	
		JENDL-3.2	4200				0.4946	1.147	
		CENDL-2	2420				0.2315	0.9670	
n,2n		JEF-2.2	4200				1.006	0.3088-02	
		ENDF/B-VI	4200				1.500	0.4184-02	
		JENDL-3.2	4200				1.134	0.2363-02	
		CENDL-2	2420				1.064	0.1870-02	
n,3n		ENDF/B-VI	4200					0.1952-04	
		JENDL-3.2	4200					0.1658-05	
		CENDL-2	2420					0.1961-04	
n,g		JEF-2.2	4200	2.574	2.277	24.38	0.1060-02	0.2187-01	
		ENDF/B-VI	4200	2.667	2.358	29.23	0.1430-02	0.2829-01	
		JENDL-3.2	4200	2.584	2.289	25.49	0.1014-02	0.3207-01	
		CENDL-2	2420	2.583	2.287	25.48	0.1330-02	0.2393-01	
n,p		JEF-2.2	4200				0.2518-01	0.1103-02	
		JENDL-3.2	4200				0.3576-01	0.1786-02	
		CENDL-2	2420				0.3100-01	0.2143-02	
n,d		JENDL-3.2	4200				0.7844-03	0.3917-06	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
42-Mo- 0	n,t	JENDL-3.2	4200				0.1721-04	0.2632-07	
	n,He3	JENDL-3.2	4200				0.3866-07	0.4143-09	
	n,a	JEF-2.2 JENDL-3.2	4200 4200				0.1842-01 0.1065-01	0.1513-03 0.3810-03	
42-Mo- 92	Total	JEF-2.2 JENDL-3.2	4225 4225	5.649 5.596	5.648 5.594	79.57 79.85	6.811 4.337	5.578 5.715	
	Elast.	JEF-2.2 JENDL-3.2	4225 4225	5.633 5.576	5.632 5.576	78.74 79.00	4.880 2.557	4.752 5.081	
	Inel.	JEF-2.2 JENDL-3.2	4225 4225				1.710 0.6721	0.7969 0.5915	
	n,2n	JENDL-3.2	4225				0.1512	0.4271-04	
	n,g	JEF-2.2 ENDF/B-VI JENDL-3.2	4225 4225 4225	0.1874-01 0.4438-01 0.2076-01	0.1661-01 0.3702-01 0.1840-01	0.8388 0.8131 0.8537	0.2768-02 0.2765-02 0.1045-02	0.2470-01 0.2469-01 0.2797-01	
	n,p	JEF-2.2 JENDL-3.2	4225 4225	0.7039-13	0.1385-12	0.2694-06	0.1620 0.1282	0.3757-02 0.1145-01	
	n,d	JEF-2.2 JENDL-3.2	4225 4225				0.1959-01 0.2352-02	0.1205-04 0.1089-05	
	n,t	JEF-2.2 JENDL-3.2	4225 4225				0.4470-04 0.4766-08	0.2884-07 0.7005-08	
	n,He3	JEF-2.2 JENDL-3.2	4225 4225				0.2290-05 0.2597-06	0.2895-08 0.2373-08	
	n,a	JEF-2.2 JENDL-3.2	4225 4225	0.4078-15	0.8026-15	0.1561-08	0.3490-01 0.2140-01	0.8426-04 0.1677-03	
	42-Mo- 94	Total	JEF-2.2 ENDF/B-VI JENDL-3.2	4231 4231 4231	6.249 3.611 6.043	6.249 3.613 6.042	87.23 61.22 88.49	4.214 4.205 4.338	5.282 5.289 5.716
		Elast.	JEF-2.2 ENDF/B-VI JENDL-3.2	4231 4231 4231	6.240 3.603 6.031	6.238 3.600 6.030	86.14 60.27 87.26	2.940 3.019 2.553	4.596 4.593 4.695
		Inel.	JEF-2.2 ENDF/B-VI JENDL-3.2	4231 4231 4231				1.185 1.185 0.5762	0.6486 0.6485 0.9810
		n,2n	JENDL-3.2	4231				1.113	0.9538-03
n,3n		JENDL-3.2	4231					0.4010-07	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
42-Mo- 94	n,g	JEF-2.2	4231	0.1322-01	0.1171-01	1.087	0.3808-02	0.3347-01	
		ENDF/B-VI	4231	0.1601-01	0.1422-01	0.9436	0.3804-02	0.3344-01	
		JENDL-3.2	4231	0.1312-01	0.1163-01	1.236	0.1008-02	0.3564-01	
	n,p	JEF-2.2	4231				0.5706-01	0.9552-03	
		JENDL-3.2	4231				0.5341-01	0.3776-03	
	n,d	JEF-2.2	4231				0.6507-02	0.3438-05	
		JENDL-3.2	4231				0.1024-02	0.5161-06	
	n,t	JEF-2.2	4231				0.4119-04	0.6564-07	
		JENDL-3.2	4231				0.1522-04	0.3011-07	
	n,He3	JEF-2.2	4231				0.2183-05	0.2336-08	
		JENDL-3.2	4231				0.6431-09	0.2063-09	
	n,a	JEF-2.2	4231				0.2600-01	0.6155-04	
		JENDL-3.2	4231				0.1751-01	0.9486-03	
	42-Mo- 95	Total	JEF-2.2	4234	19.25	17.63	305.7	4.180	5.708
			ENDF/B-VI	4234	16.98	15.36	291.2	4.234	5.339
			JENDL-3.2	4234	19.60	18.00	333.8	4.338	5.717
		Elast.	JEF-2.2	4234	5.238	5.235	195.5	2.358	4.346
			ENDF/B-VI	4234	2.481	2.474	178.1	3.029	4.183
JENDL-3.2			4234	5.596	5.593	215.5	2.559	4.263	
Inel.		JEF-2.2	4234				1.758	1.310	
		ENDF/B-VI	4234				1.200	1.101	
		JENDL-3.2	4234				0.3715	1.401	
n,2n		JENDL-3.2	4234				1.346	0.3565-02	
n,3n		JENDL-3.2	4234					0.3565-06	
n,g		JEF-2.2	4234	14.01	12.40	110.2	0.4238-03	0.5047-01	
		ENDF/B-VI	4234	14.56	12.89	113.0	0.2737-02	0.4771-01	
		JENDL-3.2	4234	14.00	12.40	118.3	0.1002-02	0.4642-01	
n,p		JEF-2.2	4234				0.3100-01	0.3499-03	
		JENDL-3.2	4234				0.3523-01	0.2674-03	
n,d		JEF-2.2	4234				0.5782-02	0.7047-05	
		JENDL-3.2	4234				0.1538-02	0.7028-06	
n,t		JEF-2.2	4234				0.2734-03	0.2595-06	
		JENDL-3.2	4234				0.8032-04	0.7081-07	
n,He3		JEF-2.2	4234				0.2134-05	0.2143-08	
		JENDL-3.2	4234				0.4341-09	0.2508-09	
n,a		JEF-2.2	4234				0.2259-01	0.1492-03	
		JENDL-3.2	4234				0.1333-01	0.1502-02	

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
42-Mo- 96	Total	JEF-2.2	4237	5.542	5.487	140.8	4.259	5.354
		ENDF/B-VI	4237	3.959	3.845	132.3	4.259	5.361
		JENDL-3.2	4237	5.348	5.281	162.1	4.339	5.717
	Elast.	JEF-2.2	4237	5.039	5.038	122.9	3.024	4.597
		ENDF/B-VI	4237	2.947	2.954	112.7	3.065	4.598
		JENDL-3.2	4237	4.752	4.752	144.7	2.559	4.569
	Inel.	JEF-2.2	4237				1.191	0.7197
		ENDF/B-VI	4237				1.191	0.7197
		JENDL-3.2	4237				0.4549	1.116
	n,2n	JENDL-3.2	4237				1.290	0.1608-02
	n,3n	JENDL-3.2	4237					0.5067-06
	n,g	JEF-2.2	4237	0.5064	0.4488	17.83	0.3066-02	0.2946-01
		ENDF/B-VI	4237	1.004	0.8902	19.56	0.3064-02	0.2947-01
		JENDL-3.2	4237	0.5957	0.5280	17.39	0.1006-02	0.2772-01
	n,p	JEF-2.2	4237				0.1888-01	0.4863-04
		JENDL-3.2	4237				0.2065-01	0.3361-04
	n,d	JEF-2.2	4237				0.4489-02	0.4229-05
		JENDL-3.2	4237				0.1508-03	0.1366-06
	n,t	JEF-2.2	4237				0.2233-04	0.1760-07
		JENDL-3.2	4237				0.4706-05	0.2185-07
n,He3	JEF-2.2	4237				0.2087-05	0.1913-08	
n,a	JEF-2.2	4237				0.1696-01	0.1911-04	
	JENDL-3.2	4237				0.9742-02	0.9603-04	
42-Mo- 97	Total	JEF-2.2	4240	7.862	7.611	104.4	4.251	5.809
		ENDF/B-VI	4240	5.754	5.517	83.97	4.274	5.403
		JENDL-3.2	4240	7.988	7.749	105.4	4.340	5.721
	Elast.	JEF-2.2	4240	5.719	5.717	87.35	2.421	4.467
		ENDF/B-VI	4240	3.588	3.585	67.45	3.049	4.231
		JENDL-3.2	4240	5.887	5.887	88.52	2.553	4.178
	Inel.	JEF-2.2	4240				1.784	1.294
		ENDF/B-VI	4240				1.230	1.114
		JENDL-3.2	4240				0.3499	1.492
	n,2n	JENDL-3.2	4240				1.412	0.5737-02
	n,3n	JENDL-3.2	4240					0.1848-05
	n,g	JEF-2.2	4240	2.143	1.895	17.03	0.1537-03	0.4619-01
		ENDF/B-VI	4240	2.188	1.936	16.36	0.2444-02	0.4506-01
		JENDL-3.2	4240	2.101	1.860	16.85	0.1001-02	0.4264-01
	n,p	JEF-2.2	4240				0.1400-01	0.8392-04
		JENDL-3.2	4240				0.1480-01	0.2127-04

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
42-Mo- 97	n,d	JEF-2.2	4240				0.3022-02	0.2817-05
		JENDL-3.2	4240				0.6585-03	0.3301-06
	n,t	JEF-2.2	4240				0.1876-03	0.1702-06
		JENDL-3.2	4240				0.1509-04	0.2939-07
n,He3	JEF-2.2	4240				0.2042-05	0.1789-08	
	JENDL-3.2	4240				0.1546-12	0.2496-10	
n,a	JEF-2.2	4240				0.2796-01	0.8427-04	
	JENDL-3.2	4240				0.6881-02	0.9520-04	
42-Mo- 98	Total	JEF-2.2	4243	5.929	5.913	104.3	4.279	5.849
		JENDL-3.2	4243	5.801	5.787	101.8	4.085	6.027
	Elast.	JEF-2.2	4243	5.800	5.799	97.31	2.474	4.708
		JENDL-3.2	4243	5.671	5.671	95.35	2.297	4.837
	Inel.	JEF-2.2	4243				0.7843-01	1.108
		JENDL-3.2	4243				0.4444	1.158
	n,2n	JEF-2.2	4243				1.722	0.3520-02
		JENDL-3.2	4243				1.330	0.2479-02
	n,3n	JENDL-3.2	4243					0.2117-05
	n,g	JEF-2.2	4243	0.1291	0.1145	6.954	0.1855-02	0.2814-01
		ENDF/B-VI	4243	0.1280	0.1133	6.810	0.1413-02	0.1958-01
		JENDL-3.2	4243	0.1301	0.1153	6.418	0.1012-02	0.2684-01
	n,p	JEF-2.2	4243				0.1886-02	0.2820-05
		JENDL-3.2	4243				0.4786-02	0.3198-05
	n,d	JEF-2.2	4243				0.1872-02	0.1606-05
		JENDL-3.2	4243				0.3167-04	0.5620-07
n,t	JEF-2.2	4243				0.1503-04	0.1180-07	
	JENDL-3.2	4243				0.2762-05	0.1578-07	
n,He3	JEF-2.2	4243				0.2001-05	0.1602-08	
n,a	JEF-2.2	4243				0.8754-03	0.3120-05	
	JENDL-3.2	4243				0.5081-02	0.1132-04	
42-Mo- 99	Total	JEF-2.2	4246	5.649	5.462	94.07	4.325	5.431
		ENDF/B-VI	4246	5.747	5.902	98.56	4.325	5.440
		JENDL-3.2	4246	13.77	12.88	141.4	4.340	5.723
	Elast.	JEF-2.2	4246	3.940	3.940	66.97	3.064	3.936
		ENDF/B-VI	4246	3.934	3.944	66.80	3.071	3.939
		JENDL-3.2	4246	5.730	5.731	100.0	2.832	4.010

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
42-Mo- 99	Inel.	JEF-2.2	4246			0.3110-04	1.248	1.420	
		ENDF/B-VI	4246			0.3110-04	1.248	1.420	
		JENDL-3.2	4246			0.1121-03	0.6942-01	1.652	
	n,2n	JENDL-3.2	4246				1.429	0.2315-01	
									0.1268-04
	n,3n	JENDL-3.2	4246						
	n,g	JEF-2.2	4246	1.702	1.508	26.90	0.2043-02	0.6925-01	
		ENDF/B-VI	4246	1.710	1.513	26.97	0.2045-02	0.6939-01	
		JENDL-3.2	4246	8.005	7.095	41.33	0.1001-02	0.3538-01	
	n,p	JEF-2.2	4246				0.7773-02	0.2772-04	
		JENDL-3.2	4246				0.6708-02	0.4497-05	
	n,d	JEF-2.2	4246				0.1447-02	0.1535-05	
JENDL-3.2		4246				0.2678-03	0.1590-06		
n,t	JEF-2.2	4246				0.1324-03	0.1253-06		
	JENDL-3.2	4246				0.2040-04	0.2960-07		
n,He3	JEF-2.2	4246				0.1960-05	0.1499-08		
n,a	JEF-2.2	4246			0.6307-07	0.2200-02	0.2017-04		
	JENDL-3.2	4246				0.1950-02	0.7620-05		
42-Mo-100	Total	JEF-2.2	4249	5.681	5.658	102.6	4.346	5.904	
		JENDL-3.2	4249	5.526	5.504	100.7	4.133	6.000	
	Elast.	JEF-2.2	4249	5.483	5.482	98.72	2.512	4.569	
		JENDL-3.2	4249	5.327	5.327	96.95	2.243	4.576	
	Inel.	JEF-2.2	4249				0.3751-01	1.314	
		JENDL-3.2	4249				0.5002	1.398	
	n,2n	JEF-2.2	4249				1.794	0.4698-02	
		JENDL-3.2	4249				1.385	0.3209-02	
	n,3n	JENDL-3.2	4249					0.8578-05	
	n,g	JEF-2.2	4249	0.1987	0.1761	3.870	0.1630-02	0.1479-01	
		ENDF/B-VI	4249	0.1997	0.1771	3.814	0.1381-02	0.1386-01	
		JENDL-3.2	4249	0.1991	0.1765	3.790	0.1008-02	0.2122-01	
	n,p	JEF-2.2	4249				0.6923-04	0.4610-07	
		JENDL-3.2	4249				0.1838-02	0.8601-06	
n,d	JEF-2.2	4249				0.1216-02	0.9437-06		
	JENDL-3.2	4249				0.2235-05	0.2219-07		
n,t	JEF-2.2	4249				0.1028-04	0.7681-08		
	JENDL-3.2	4249				0.1259-05	0.9715-08		
n,He3	JEF-2.2	4249				0.1874-05	0.1145-08		

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
42-Mo-100	n,a	JEF-2.2	4249				0.1863-03	0.3735-06
		JENDL-3.2	4249				0.2385-02	0.1832-05
43-Tc-99	Total	JEF-2.2	4331	22.67	20.57	388.9	4.253	5.941
		ENDF/B-VI	4325	26.39	24.28	463.3	4.112	6.271
		JENDL-3.2	4331	23.10	20.93	385.9	4.537	5.645
		BROND-2	4399	22.65	20.54	379.9	4.122	6.243
	Elast.	JEF-2.2	4331	3.544	3.541	84.69	2.506	4.426
		ENDF/B-VI	4325	6.882	6.873	112.7	2.095	4.838
		JENDL-3.2	4331	3.440	3.438	74.79	3.060	4.240
		BROND-2	4399	3.515	3.512	75.69	2.100	4.821
	Inel.	JEF-2.2	4331				0.2670-01	1.423
		ENDF/B-VI	4325				0.5994	1.348
		JENDL-3.2	4331				0.2148	1.308
		BROND-2	4399				0.5994	1.330
	n,2n	JEF-2.2	4331				1.697	0.3265-02
		ENDF/B-VI	4325				1.425	0.2238-02
		JENDL-3.2	4331				1.233	0.2054-02
		BROND-2	4399				1.425	0.2237-02
	n,3n	JENDL-3.2	4331					0.2708-05
	n,g	JEF-2.2	4331	19.14	17.03	304.2	0.1019-02	0.8769-01
		ENDF/B-VI	4325	19.57	17.42	350.4	0.6228-03	0.7259-01
		JENDL-3.2	4331	19.65	17.49	311.1	0.1007-02	0.8908-01
		BROND-2	4399	19.14	17.03	304.2	0.1101-02	0.7924-01
	n,p	JEF-2.2	4331				0.1537-01	0.1654-03
		JENDL-3.2	4331				0.1341-01	0.6830-04
	n,d	JEF-2.2	4331				0.1434-02	0.2496-05
		JENDL-3.2	4331				0.1050-02	0.5321-06
	n,t	JEF-2.2	4331				0.2890-04	0.2996-07
		JENDL-3.2	4331				0.9479-04	0.8192-07
	n,He3	JEF-2.2	4331				0.3321-05	0.2775-08
		JENDL-3.2	4331				0.1078-12	0.2157-10
	n,a	JEF-2.2	4331				0.6775-02	0.4187-04
JENDL-3.2		4331				0.6605-02	0.2883-04	
44-Ru-96	Total	JEF-2.2	4425	6.338	6.419	123.7	6.871	5.919
		ENDF/B-VI	4425	6.821	7.549	123.8	6.905	5.920
		JENDL-3.2	4425	5.427	5.410	91.00	4.539	5.644
	Elast.	JEF-2.2	4425	6.079	6.168	111.4	4.892	4.780
		ENDF/B-VI	4425	6.072	6.068	111.5	5.132	4.783
		JENDL-3.2	4425	5.127	5.128	84.09	2.506	4.692

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
44-Ru- 96	Inel.	JEF-2.2	4425				1.760	0.9945
		ENDF/B-VI	4425				1.760	0.9945
		JENDL-3.2	4425				0.8686	0.8392
	n,2n	JENDL-3.2	4425				0.7700	0.3326-03
	n,g	JEF-2.2	4425	0.2489	0.2207	12.22	0.1400-02	0.1424
		ENDF/B-VI	4425	0.7633	1.482	12.29	0.1400-02	0.1424
		JENDL-3.2	4425	0.2902	0.2572	6.867	0.1171-02	0.9779-01
	n,p	JEF-2.2	4425			0.1039-04	0.1776	0.2989-02
		JENDL-3.2	4425				0.1568	0.3517-02
	n,d	JEF-2.2	4425				0.6229-02	0.7601-05
		JENDL-3.2	4425				0.1770-02	0.8131-06
	n,t	JEF-2.2	4425				0.6150-04	0.5205-07
		JENDL-3.2	4425				0.8094-05	0.1983-07
	n,He3	JEF-2.2	4425				0.2368-05	0.3076-08
JENDL-3.2		4425				0.2572-06	0.2337-08	
n,a	JEF-2.2	4425			0.1366-05	0.3244-01	0.4040-03	
	JENDL-3.2	4425				0.3404-01	0.9685-02	
44-Ru- 98	Total	JEF-2.2	4431	14.20	14.00	123.3	6.582	5.958
		ENDF/B-VI	4431	30.40	53.48	124.8	6.582	5.957
		JENDL-3.2	4431	13.17	12.29	99.18	4.538	5.645
	Elast.	JEF-2.2	4431	6.219	6.901	111.3	4.906	4.877
		ENDF/B-VI	4431	6.070	6.067	111.1	5.000	4.874
		JENDL-3.2	4431	5.129	5.128	87.92	2.653	4.538
	Inel.	JEF-2.2	4431				1.580	1.055
		ENDF/B-VI	4431				1.580	1.055
		JENDL-3.2	4431				0.7023	1.025
	n,2n	JENDL-3.2	4431				1.027	0.6408-03
	n,3n	JENDL-3.2	4431					0.9202-07
	n,g	JEF-2.2	4431	7.964	7.070	11.79	0.2380-02	0.2612-01
		ENDF/B-VI	4431	24.27	47.43	13.68	0.2380-02	0.2611-01
		JENDL-3.2	4431	8.006	7.095	11.15	0.1389-02	0.7697-01
	n,p	JEF-2.2	4431				0.7128-01	0.5204-03
		JENDL-3.2	4431				0.7629-01	0.5503-03
	n,d	JEF-2.2	4431				0.5110-02	0.5428-05
		JENDL-3.2	4431				0.7060-03	0.4078-06
n,t	JEF-2.2	4431				0.4045-04	0.3260-07	
	JENDL-3.2	4431				0.3897-05	0.2566-07	
n,He3	JEF-2.2	4431				0.2262-05	0.2540-08	
	JENDL-3.2	4431				0.1254-08	0.1338-09	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
44-Ru-98	n,a	JEF-2.2	4431			0.3886-06	0.1691-01	0.1240-03
		JENDL-3.2	4431				0.1875-01	0.6886-03
44-Ru-99	Total	JEF-2.2	4434	12.08	11.28	250.1	4.325	5.431
		ENDF/B-VI	4434	8.540	7.994	213.9	4.325	5.437
		JENDL-3.2	4434	10.99	10.18	250.1	4.537	5.646
	Elast.	JEF-2.2	4434	4.977	4.975	87.70	3.036	4.004
		ENDF/B-VI	4434	3.544	3.535	72.50	3.100	4.009
		JENDL-3.2	4434	3.680	3.679	79.81	2.798	4.140
	Incl.	JEF-2.2	4434			0.3076-02	1.219	1.362
		ENDF/B-VI	4434			0.3076-02	1.219	1.362
		JENDL-3.2	4434			0.3504-02	0.2651	1.427
	n,2n	JENDL-3.2	4434				1.408	0.5542-02
	n,3n	JENDL-3.2	4434					0.2698-06
	n,g	JEF-2.2	4434	7.108	6.311	162.3	0.2507-02	0.6169-01
		ENDF/B-VI	4434	5.021	4.460	137.0	0.2510-02	0.6184-01
		JENDL-3.2	4434	7.313	6.494	170.2	0.1001-02	0.6952-01
	n,p	JEF-2.2	4434			0.3100-05	0.5167-01	0.8964-03
		JENDL-3.2	4434				0.4645-01	0.3939-03
	n,d	JEF-2.2	4434				0.3894-02	0.4920-05
		JENDL-3.2	4434				0.1987-02	0.9211-06
	n,t	JEF-2.2	4434				0.2987-03	0.2877-06
		JENDL-3.2	4434				0.3619-04	0.5450-07
n,He3	JEF-2.2	4434				0.2213-05	0.2341-08	
	JENDL-3.2	4434				0.1034-08	0.2798-09	
n,a	JEF-2.2	4434			0.7912-06	0.1284-01	0.2237-03	
	JENDL-3.2	4434				0.1175-01	0.8930-03	
44-Ru-100	Total	JEF-2.2	4437	9.743	9.081	79.39	4.348	5.450
		ENDF/B-VI	4437	9.750	9.102	79.49	4.345	5.459
		JENDL-3.2	4437	11.52	10.95	99.09	4.537	5.642
	Elast.	JEF-2.2	4437	3.937	3.936	71.36	3.095	4.549
		ENDF/B-VI	4437	3.936	3.945	71.39	3.135	4.547
		JENDL-3.2	4437	6.498	6.497	88.17	2.567	4.434
	Incl.	JEF-2.2	4437				1.208	0.8412
		ENDF/B-VI	4437				1.208	0.8412
		JENDL-3.2	4437				0.4710	1.147
	n,2n	JENDL-3.2	4437				1.472	0.1442-02
	n,3n	JENDL-3.2	4437					0.9687-06

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
44-Ru-100	n,g	JEF-2.2	4437	5.807	5.145	7.905	0.2531-02	0.5709-01	
		ENDF/B-VI	4437	5.838	5.163	7.920	0.2529-02	0.5719-01	
		JENDL-3.2	4437	5.024	4.452	10.92	0.1053-02	0.5622-01	
	n,p	JEF-2.2	4437				0.3294-01	0.1233-03	
		JENDL-3.2	4437				0.1388-01	0.2527-04	
	n,d	JEF-2.2	4437				0.3251-02	0.3085-05	
		JENDL-3.2	4437				0.1200-03	0.1302-06	
	n,t	JEF-2.2	4437				0.2710-04	0.2080-07	
		JENDL-3.2	4437				0.9419-06	0.1482-07	
	n,He3	JEF-2.2	4437				0.2167-05	0.2075-08	
	n,a	JEF-2.2	4437			0.1178-06	0.8178-02	0.4000-04	
		JENDL-3.2	4437				0.8501-02	0.7913-04	
	44-Ru-101	Total	JEF-2.2	4440	8.498	8.113	200.2	4.198	5.932
			ENDF/B-VI	4440	6.666	6.296	184.0	4.368	5.489
JENDL-3.2			4440	7.121	6.743	173.4	4.537	5.642	
BROND-2			4401	7.715	7.331	196.9	4.370	5.495	
Elast.		JEF-2.2	4440	5.081	5.081	89.57	2.181	4.060	
		ENDF/B-VI	4440	3.233	3.243	72.86	3.123	3.905	
		JENDL-3.2	4440	3.760	3.759	73.87	2.818	3.993	
		BROND-2	4401	4.312	4.312	85.82	3.126	3.914	
Inel.		JEF-2.2	4440				0.2025	1.795	
		ENDF/B-VI	4440				1.242	1.503	
		JENDL-3.2	4440				0.1616	1.550	
		BROND-2	4401				1.242	1.504	
n,2n		JEF-2.2	4440				1.785	0.1026-01	
		JENDL-3.2	4440				1.526	0.1104-01	
n,3n		JEF-2.2	4440					0.1468-05	
		JENDL-3.2	4440					0.1801-05	
n,g		JEF-2.2	4440	3.417	3.032	110.6	0.1009-02	0.6632-01	
		ENDF/B-VI	4440	3.433	3.053	111.1	0.2900-02	0.7995-01	
		JENDL-3.2	4440	3.361	2.982	99.56	0.1002-02	0.8500-01	
		BROND-2	4401	3.403	3.019	111.0	0.1093-02	0.7579-01	
n,p		JEF-2.2	4440				0.2288-01	0.4263-04	
		JENDL-3.2	4440				0.2131-01	0.4588-04	
n,d		JENDL-3.2	4440				0.6797-03	0.3629-06	
n,t		JENDL-3.2	4440				0.1142-04	0.3046-07	
n,He3		JENDL-3.2	4440				0.1591-13	0.1425-10	
n,a		JEF-2.2	4440				0.8380-02	0.1055-04	
		JENDL-3.2	4440				0.5518-02	0.6157-04	

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
44-Ru-102	Total	JEF-2.2	4443	5.270	5.124	66.11	4.393	5.492
		ENDF/B-VI	4443	6.876	6.713	79.95	4.391	5.489
		JENDL-3.2	4443	6.820	6.681	78.59	4.536	5.642
		BROND-2	4402	8.116	7.979	96.69	4.398	5.924
	Elast.	JEF-2.2	4443	3.972	3.971	63.14	3.256	4.516
		ENDF/B-VI	4443	5.642	5.617	75.89	3.276	4.515
		JENDL-3.2	4443	5.589	5.589	74.48	2.485	4.333
		BROND-2	4402	6.940	6.937	90.74	2.563	4.661
	Inel.	JEF-2.2	4443				1.113	0.9151
		ENDF/B-VI	4443				1.113	0.9151
		JENDL-3.2	4443				0.5159	1.264
		BROND-2	4402				1.829	1.190
	n,2n	JENDL-3.2	4443				1.515	0.2064-02
	n,3n	JENDL-3.2	4443					0.3756-05
	n,g	JEF-2.2	4443	1.301	1.153	2.947	0.1580-02	0.5937-01
		ENDF/B-VI	4443	1.235	1.096	4.058	0.1583-02	0.5936-01
		JENDL-3.2	4443	1.230	1.090	4.098	0.1019-02	0.4014-01
		BROND-2	4402	1.177	1.043	5.938	0.1093-02	0.6987-01
	n,p	JEF-2.2	4443				0.1480-01	0.3144-04
		JENDL-3.2	4443				0.1381-01	0.9552-05
	n,d	JEF-2.2	4443				0.2116-02	0.1875-05
		JENDL-3.2	4443				0.3539-04	0.6836-07
	n,t	JEF-2.2	4443				0.1847-04	0.1348-07
		JENDL-3.2	4443				0.2506-06	0.8704-08
	n,He3	JEF-2.2	4443				0.2079-05	0.1628-08
	n,a	JEF-2.2	4443			0.5583-07	0.5455-02	0.1969-04
		JENDL-3.2	4443				0.5269-02	0.7715-05
	44-Ru-103	Total	JEF-2.2	4446	71.93	64.34	688.8	4.353
ENDF/B-VI			4446	11.99	12.03	147.2	4.413	5.511
JENDL-3.2			4446	13.16	12.27	174.1	4.536	5.640
Elast.		JEF-2.2	4446	5.050	5.039	94.26	2.459	3.660
		ENDF/B-VI	4446	4.038	4.048	72.13	3.211	4.033
		JENDL-3.2	4446	5.127	5.126	81.69	2.829	3.836
Inel.		JEF-2.2	4446			1.241	0.2157-01	1.997
		ENDF/B-VI	4446				1.199	1.423
		JENDL-3.2	4446			1.438	0.1535	1.751
n,2n		JEF-2.2	4446				1.868	0.2243-01
		JENDL-3.2	4446				1.539	0.1738-01
n,3n		JENDL-3.2	4446					0.4917-05

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
44-Ru-103	n,g	JEF-2.2	4446	66.88	59.30	593.3	0.2112-02	0.1442	
		ENDF/B-VI	4446	7.747	6.851	70.06	0.2329-02	0.5177-01	
		JENDL-3.2	4446	8.006	7.095	90.88	0.1000-02	0.3378-01	
	n,p	JEF-2.2	4446				0.4842-03	0.2133-05	
		JENDL-3.2	4446				0.9826-02	0.9499-05	
	n,d	JEF-2.2	4446				0.2294-02	0.1916-05	
		JENDL-3.2	4446				0.2920-03	0.2153-06	
	n,t	JEF-2.2	4446				0.1465-03	0.1340-06	
		JENDL-3.2	4446				0.1359-04	0.3525-07	
	n,He3	JEF-2.2	4446				0.1988-05	0.1444-08	
	n,a	JEF-2.2	4446				0.2289-03	0.1628-05	
		JENDL-3.2	4446				0.2443-02	0.3217-05	
	44-Ru-104	Total	JEF-2.2	4449	8.429	8.392	107.0	4.438	5.512
			ENDF/B-VI	4449	4.233	4.187	77.43	4.434	5.520
			JENDL-3.2	4449	5.584	5.548	98.59	4.535	5.643
			BROND-2	4404	8.653	8.615	113.7	4.453	5.969
		Elast.	JEF-2.2	4449	8.130	8.129	101.3	3.177	4.626
			ENDF/B-VI	4449	3.790	3.798	70.97	3.184	4.625
JENDL-3.2			4449	5.261	5.261	92.20	2.533	4.257	
BROND-2			4404	8.329	8.326	107.9	2.603	4.645	
Inel.		JEF-2.2	4449				1.250	0.8523	
		ENDF/B-VI	4449				1.250	0.8523	
		JENDL-3.2	4449				0.4043	1.346	
		BROND-2	4404				1.845	1.289	
n,2n		JENDL-3.2	4449				1.589	0.3032-02	
n,3n		JENDL-3.2	4449					0.9566-05	
n,g		JEF-2.2	4449	0.2975	0.2636	5.642	0.9086-03	0.3190-01	
		ENDF/B-VI	4449	0.4397	0.3890	6.408	0.9097-03	0.3195-01	
		JENDL-3.2	4449	0.3228	0.2860	6.384	0.1093-02	0.3231-01	
		BROND-2	4404	0.3275	0.2901	5.808	0.1093-02	0.3156-01	
n,p		JEF-2.2	4449				0.5945-02	0.9966-05	
		JENDL-3.2	4449				0.5496-02	0.2922-05	
n,d		JEF-2.2	4449				0.1412-02	0.1193-05	
		JENDL-3.2	4449				0.5564-05	0.3347-07	
n,t		JEF-2.2	4449				0.1279-04	0.9212-08	
		JENDL-3.2	4449				0.3243-07	0.5405-08	
n,He3		JEF-2.2	4449				0.1948-05	0.1252-08	
n,a		JEF-2.2	4449	0.2406-13	0.4745-13	0.9242-07	0.2159-02	0.6025-05	
		JENDL-3.2	4449				0.1988-02	0.1380-05	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
44-Ru-105	Total	JEF-2.2	4452	4.298	4.285	71.78	4.460	5.507
		ENDF/B-VI	4452	4.329	4.410	72.10	4.455	5.517
	Elast.	JEF-2.2	4452	4.092	4.091	64.61	3.090	3.896
		ENDF/B-VI	4452	4.090	4.100	64.69	3.094	3.897
	Inel.	JEF-2.2	4452			0.1267-02	1.359	1.568
		ENDF/B-VI	4452			0.1267-02	1.359	1.568
	n,g	JEF-2.2	4452	0.2003	0.1774	7.055	0.2142-02	0.4070-01
		ENDF/B-VI	4452	0.2013	0.1780	7.068	0.2145-02	0.4080-01
	n,p	JEF-2.2	4452				0.5271-02	0.1916-04
	n,d	JEF-2.2	4452				0.1635-02	0.1296-05
	n,t	JEF-2.2	4452				0.1050-03	0.9553-07
	n,He3	JEF-2.2	4452				0.2109-05	0.1126-08
	n,a	JEF-2.2	4452			0.1427-07	0.1202-02	0.5060-05
44-Ru-106	Total	JEF-2.2	4455	4.269	4.271	64.63	4.480	5.521
		ENDF/B-VI	4455	4.293	4.364	65.10	4.474	5.534
		JENDL-3.2	4455	3.509	3.502	64.63	4.534	5.635
		BROND-2	4406	5.326	5.307	81.58	4.492	5.967
	Elast.	JEF-2.2	4455	4.118	4.117	62.51	3.118	4.449
		ENDF/B-VI	4455	4.116	4.125	62.62	3.123	4.453
		JENDL-3.2	4455	3.359	3.358	62.68	2.829	4.349
		BROND-2	4406	5.176	5.174	79.57	2.633	4.627
	Inel.	JEF-2.2	4455				1.355	1.059
		ENDF/B-VI	4455				1.355	1.059
		JENDL-3.2	4455				0.1239	1.262
		BROND-2	4406				1.856	1.321
	n,2n	JENDL-3.2	4455				1.577	0.3974-02
	n,3n	JENDL-3.2	4455					0.1951-04
	n,g	JEF-2.2	4455	0.1462	0.1295	2.026	0.1630-02	0.1124-01
		ENDF/B-VI	4455	0.1470	0.1300	2.030	0.1627-02	0.1126-01
		JENDL-3.2	4455	0.1461	0.1295	1.914	0.1003-02	0.1453-01
		BROND-2	4406	0.1462	0.1295	1.990	0.1093-02	0.1458-01
	n,p	JEF-2.2	4455				0.3098-02	0.4047-05
		JENDL-3.2	4455				0.2830-02	0.1322-05
	n,d	JEF-2.2	4455				0.9551-03	0.7630-06
		JENDL-3.2	4455				0.6760-06	0.1824-07
	n,t	JEF-2.2	4455				0.8989-05	0.6163-08
JENDL-3.2		4455				0.1486-07	0.4043-08	
n,He3	JEF-2.2	4455				0.4189-06	0.2064-09	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
44-Ru-106	n,a	JEF-2.2 JENDL-3.2	4455 4455			0.7834-09	0.6945-03 0.5591-03	0.1789-05 0.2828-06
45-Rh-103	Total	JEF-2.2 ENDF/B-VI JENDL-3.2 BROND-2	4525 4525 4525 4503	149.9 151.9 150.0 149.9	136.1 138.0 136.3 136.1	1115. 1129. 1121. 1112.	4.351 4.248 4.337 4.253	5.985 6.003 5.753 5.843
	Elast.	JEF-2.2 ENDF/B-VI JENDL-3.2 BROND-2	4525 4525 4525 4503	3.431 4.687 3.275 3.423	3.414 4.666 3.258 3.404	79.81 94.14 78.51 77.85	2.570 2.925 2.539 2.925	4.394 4.111 4.094 4.268
	Inel.	JEF-2.2 ENDF/B-VI JENDL-3.2 BROND-2	4525 4525 4525 4503			0.1878-02 0.4599-02 0.2860-02 0.1833-02	0.4519-01 0.5320 0.4683 0.5320	1.486 1.794 1.561 1.490
	n,2n	JEF-2.2 ENDF/B-VI JENDL-3.2 BROND-2	4525 4525 4525 4503				1.704 0.7955 1.285 0.7955	0.2272-02 0.8331-03 0.1311-02 0.8328-03
	n,3n	JENDL-3.2	4525					0.1460-05
	n,g	JEF-2.2 ENDF/B-VI JENDL-3.2 BROND-2	4525 4525 4525 4503	146.4 147.3 146.8 146.4	132.7 133.4 133.0 132.7	1035. 1035. 1043. 1034.	0.7526-03 0.8408-03 0.1004-02 0.1093-02	0.8546-01 0.8647-01 0.9144-01 0.7852-01
	n,p	JEF-2.2 JENDL-3.2	4525 4525				0.1749-01 0.1651-01	0.2080-03 0.2195-03
	n,d	JEF-2.2 JENDL-3.2	4525 4525				0.1633-02 0.1559-02	0.2857-05 0.7421-06
	n,t	JEF-2.2 JENDL-3.2	4525 4525				0.3080-04 0.4055-04	0.3270-07 0.5486-07
	n,He3	JEF-2.2 JENDL-3.2	4525 4525				0.3571-05 0.3046-12	0.3188-08 0.2664-10
	n,a	JEF-2.2 JENDL-3.2	4525 4525				0.1009-01 0.1016-01	0.4988-04 0.2491-04
45-Rh-105	Total	JEF-2.2 ENDF/B-VI JENDL-3.2	4531 4531 4531	0.1534+05 0.1530+05 0.2487+05	0.1109+05 0.1111+05 0.2295+05	0.1577+05 0.1575+05 0.5681+05	4.458 4.455 4.535	5.507 5.518 5.642
	Elast.	JEF-2.2 ENDF/B-VI JENDL-3.2	4531 4531 4531	4.092 4.090 9032.	4.091 4.099 8951.	70.00 70.04 0.3982+05	3.143 3.138 2.827	4.445 4.452 4.080

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
45-Rh-105	Inel.	JEF-2.2	4531				1.315	0.9245	
		ENDF/B-VI	4531				1.315	0.9245	
		JENDL-3.2	4531				0.2133	1.476	
	n,2n	JENDL-3.2	4531				1.474	0.2392-02	
	n,3n	JENDL-3.2	4531					0.3847-05	
	n,g	JEF-2.2	4531	0.1534+05	0.1107+05	0.1569+05	0.1887-02	0.1192	
		ENDF/B-VI	4531	0.1529+05	0.1110+05	0.1568+05	0.1887-02	0.1194	
		JENDL-3.2	4531	0.1584+05	0.1399+05	0.1700+05	0.1012-02	0.8022-01	
	n,p	JENDL-3.2	4531				0.1256-01	0.2972-04	
	n,d	JENDL-3.2	4531				0.4238-03	0.2740-06	
	n,t	JENDL-3.2	4531				0.1349-04	0.4098-07	
	n,a	JENDL-3.2	4531				0.2761-02	0.2547-05	
	46-Pd-102	Total	JEF-2.2	4625	9.083	8.688	118.8	6.893	6.087
			ENDF/B-VI	4625	20.23	34.26	112.2	6.893	6.083
JENDL-3.2			4625	8.414	8.025	126.9	4.475	5.600	
Elast.		JEF-2.2	4625	5.713	5.711	105.8	5.166	5.018	
		ENDF/B-VI	4625	5.790	5.805	98.62	5.296	5.021	
		JENDL-3.2	4625	5.049	5.049	107.9	2.582	4.522	
Inel.		JEF-2.2	4625				1.610	1.020	
		ENDF/B-VI	4625				1.610	1.020	
		JENDL-3.2	4625				0.8980	0.9651	
n,2n		JENDL-3.2	4625				0.8719	0.3656-03	
n,3n		JENDL-3.2	4625					0.3124-07	
n,g		JEF-2.2	4625	3.367	2.977	12.95	0.3190-02	0.4725-01	
		ENDF/B-VI	4625	14.39	28.47	13.63	0.3190-02	0.4727-01	
		JENDL-3.2	4625	3.364	2.975	18.98	0.1019-02	0.1095	
n,p		JEF-2.2	4625				0.8899-01	0.6759-03	
		JENDL-3.2	4625				0.9205-01	0.2263-02	
n,d		JEF-2.2	4625				0.5360-02	0.5997-05	
		JENDL-3.2	4625				0.6795-03	0.3729-06	
n,t		JEF-2.2	4625				0.4622-04	0.3753-07	
		JENDL-3.2	4625				0.1984-05	0.1457-07	
n,He3		JEF-2.2	4625				0.2340-05	0.2810-08	
		JENDL-3.2	4625				0.5176-09	0.1781-09	
n,a		JEF-2.2	4625				0.1890-01	0.1163-03	
		JENDL-3.2	4625			0.3587-06	0.1874-01	0.6965-03	

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
46-Pd-104	Total	JEF-2.2	4631	4.775	4.737	126.7	4.318	5.810
		ENDF/B-VI	4631	4.119	4.076	102.0	4.434	5.509
		JENDL-3.2	4631	5.465	5.406	125.5	4.474	5.599
	Elast.	JEF-2.2	4631	4.459	4.458	112.9	2.221	4.639
		ENDF/B-VI	4631	3.720	3.730	83.75	3.155	4.560
		JENDL-3.2	4631	4.941	4.941	104.0	2.437	4.426
	Inel.	JEF-2.2	4631				0.1128	1.125
		ENDF/B-VI	4631				1.277	0.8290
		JENDL-3.2	4631				0.5238	1.092
	n,2n	JEF-2.2	4631				1.937	0.1546-02
		JENDL-3.2	4631				1.450	0.1021-02
	n,3n	JENDL-3.2	4631					0.4883-06
	n,g	JEF-2.2	4631	0.3154	0.2795	13.81	0.1096-02	0.4608-01
		ENDF/B-VI	4631	0.3886	0.3445	18.17	0.2318-02	0.1023
		JENDL-3.2	4631	0.5233	0.4639	21.50	0.1038-02	0.7783-01
	n,p	JEF-2.2	4631				0.3197-01	0.1305-03
		JENDL-3.2	4631				0.5430-01	0.1604-03
	n,d	JEF-2.2	4631				0.3642-02	0.4435-05
		JENDL-3.2	4631				0.3287-03	0.2223-06
	n,t	JEF-2.2	4631				0.3347-04	0.2503-07
JENDL-3.2		4631				0.8699-06	0.1372-07	
n,He3	JEF-2.2	4631				0.3506-05	0.3277-08	
	JENDL-3.2	4631				0.8090-11	0.2837-10	
n,a	JEF-2.2	4631				0.1148-01	0.5240-04	
	JENDL-3.2	4631				0.9709-02	0.9059-04	
46-Pd-105	Total	JEF-2.2	4634	27.09	24.51	175.3	4.404	5.811
		ENDF/B-VI	4634	25.10	22.74	199.6	4.455	5.888
		JENDL-3.2	4634	25.41	23.09	167.9	4.475	5.594
		BROND-2	4605	26.30	23.74	181.8	4.458	5.891
	Elast.	JEF-2.2	4634	5.250	5.245	82.21	2.485	3.887
		ENDF/B-VI	4634	5.009	5.006	88.66	3.153	4.430
		JENDL-3.2	4634	5.151	5.150	72.05	2.642	3.963
		BROND-2	4605	4.361	4.357	73.10	3.158	4.439
	Inel.	JEF-2.2	4634				0.4360-01	1.775
		ENDF/B-VI	4634				1.297	1.316
		JENDL-3.2	4634				0.1946	1.501
		BROND-2	4605				1.297	1.316
	n,2n	JEF-2.2	4634				1.832	0.1042-01
		JENDL-3.2	4634				1.605	0.8336-02
	n,3n	JENDL-3.2	4634					0.9410-06

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
46-Pd-105	n,g	JEF-2.2	4634	21.84	19.26	93.08	0.2258-02	0.1355	
		ENDF/B-VI	4634	20.06	17.73	110.8	0.4431-02	0.1321	
		JENDL-3.2	4634	20.26	17.93	95.80	0.1003-02	0.1186	
		BROND-2	4605	21.95	19.38	108.7	0.1093-02	0.1302	
	n,p	JEF-2.2	4634				0.3138-01	0.3391-03	
		JENDL-3.2	4634			0.1096-05	0.2882-01	0.1926-03	
	n,d	JEF-2.2	4634				0.2811-02	0.3397-05	
		JENDL-3.2	4634				0.9788-03	0.4900-06	
	n,t	JEF-2.2	4634				0.2289-03	0.2224-06	
		JENDL-3.2	4634				0.2845-04	0.4098-07	
	n,He3	JEF-2.2	4634				0.2200-05	0.2129-08	
		JENDL-3.2	4634				0.1002-11	0.3435-10	
	n,a	JEF-2.2	4634				0.7557-02	0.8677-04	
		JENDL-3.2	4634			0.2966-06	0.6704-02	0.8314-04	
	46-Pd-106	Total	JEF-2.2	4637	4.892	4.857	107.0	4.337	5.818
			ENDF/B-VI	4637	3.999	3.972	93.39	4.474	5.535
			JENDL-3.2	4637	5.328	5.294	99.62	4.475	5.595
			BROND-2	4606	5.376	5.343	109.9	4.479	5.564
Elast.		JEF-2.2	4637	4.592	4.591	101.0	2.250	4.587	
		ENDF/B-VI	4637	3.748	3.758	84.96	3.362	4.541	
		JENDL-3.2	4637	5.025	5.025	90.71	2.508	4.401	
		BROND-2	4606	5.084	5.083	99.05	3.253	4.517	
Inel.		JEF-2.2	4637				0.4172-01	1.175	
		ENDF/B-VI	4637				1.109	0.9003	
		JENDL-3.2	4637				0.3492	1.118	
		BROND-2	4606				1.228	0.9832	
n,2n		JEF-2.2	4637				2.018	0.2290-02	
		JENDL-3.2	4637				1.597	0.1626-02	
n,3n		JENDL-3.2	4637					0.2032-05	
n,g		JEF-2.2	4637	0.3007	0.2663	5.911	0.9732-03	0.5454-01	
		ENDF/B-VI	4637	0.2391	0.2119	8.263	0.3319-02	0.8340-01	
		JENDL-3.2	4637	0.3031	0.2686	8.919	0.1123-02	0.7341-01	
		BROND-2	4606	0.2930	0.2597	10.89	0.1093-02	0.5882-01	
n,p		JEF-2.2	4637				0.2003-01	0.5427-04	
		JENDL-3.2	4637				0.1990-01	0.2063-04	
n,d		JEF-2.2	4637				0.2410-02	0.2388-05	
		JENDL-3.2	4637				0.5723-04	0.8332-07	
n,t		JEF-2.2	4637				0.2860-04	0.2149-07	
		JENDL-3.2	4637				0.2360-06	0.8623-08	
n,He3		JEF-2.2	4637				0.2997-05	0.2414-08	

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
46-Pd-106	n,a	JEF-2.2 JENDL-3.2	4637 4637				0.4873-02 0.4826-02	0.1786-04 0.1448-04
46-Pd-107	Total	JEF-2.2 ENDF/B-VI JENDL-3.2 BROND-2	4640 4640 4640 4607	6.262 5.175 5.343 6.492	6.056 4.936 5.117 6.219	194.7 198.4 210.9 230.2	4.350 4.273 4.475 4.499	5.834 5.787 5.602 5.605
	Elast.	JEF-2.2 ENDF/B-VI JENDL-3.2 BROND-2	4640 4640 4640 4607	4.453 3.086 3.334 4.107	4.453 3.092 3.334 4.105	89.85 88.53 99.61 109.5	2.265 3.046 2.657 3.273	4.029 4.124 3.930 3.850
	Inel.	JEF-2.2 ENDF/B-VI JENDL-3.2 BROND-2	4640 4640 4640 4607				1.226 0.1836 1.226	1.663 1.536 1.529 1.633
	n,2n	JEF-2.2 JENDL-3.2	4640 4640				2.066 1.621	0.2173-01 0.1364-01
	n,3n	JENDL-3.2	4640					0.3089-05
	n,g	JEF-2.2 ENDF/B-VI JENDL-3.2 BROND-2	4640 4640 4640 4607	1.807 2.082 2.009 2.384	1.602 1.843 1.782 2.114	104.8 109.8 111.3 120.7	0.9654-03 0.2467-02 0.1002-02 0.1093-02	0.1208 0.1177 0.1253 0.1185
	n,p	JEF-2.2 JENDL-3.2	4640 4640				0.1544-01 0.1368-01	0.1113-03 0.1848-04
	n,d	JEF-2.2 JENDL-3.2	4640 4640				0.1844-02 0.4589-03	0.2194-05 0.2667-06
	n,t	JEF-2.2 JENDL-3.2	4640 4640				0.2690-04 0.9919-05	0.2622-07 0.2646-07
	n,He3	JEF-2.2	4640				0.2778-05	0.2095-08
	n,a	JEF-2.2 JENDL-3.2	4640 4640				0.3383-02 0.3089-02	0.2572-04 0.9959-05
46-Pd-108	Total	JEF-2.2 ENDF/B-VI JENDL-3.2 BROND-2	4643 4643 4643 4608	10.80 14.57 10.44 10.06	9.956 13.21 9.478 9.119	630.6 447.7 653.8 642.5	4.359 4.519 4.474 4.519	5.828 5.541 5.600 5.562
	Elast.	JEF-2.2 ENDF/B-VI JENDL-3.2 BROND-2	4643 4643 4643 4608	3.433 2.338 1.930 1.792	3.430 2.340 1.928 1.790	457.6 221.7 402.0 400.4	2.278 3.181 2.364 3.042	4.521 4.468 4.259 4.365

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
46-Pd-108	Inel.	JEF-2.2	4643				0.1570-01	1.262
		ENDF/B-VI	4643				1.335	0.9944
		JENDL-3.2	4643				0.4673	1.282
		BROND-2	4608				1.476	1.140
	n,2n	JEF-2.2	4643				2.054	0.3171-02
		JENDL-3.2	4643				1.637	0.2136-02
	n,3n	JENDL-3.2	4643					0.5916-05
	n,g	JEF-2.2	4643	7.362	6.526	172.9	0.8785-03	0.4297-01
		ENDF/B-VI	4643	12.24	10.87	225.7	0.2827-02	0.6757-01
		JENDL-3.2	4643	8.508	7.548	251.8	0.1097-02	0.5478-01
		BROND-2	4608	8.265	7.329	242.0	0.1125-02	0.4704-01
	n,p	JEF-2.2	4643				0.7032-02	0.1383-04
		JENDL-3.2	4643				0.9123-02	0.7081-05
	n,d	JEF-2.2	4643				0.1624-02	0.1472-05
		JENDL-3.2	4643				0.1618-04	0.5385-07
	n,t	JEF-2.2	4643				0.2460-04	0.1639-07
		JENDL-3.2	4643				0.8158-07	0.5830-08
	n,He3	JEF-2.2	4643				0.2512-05	0.1667-08
	n,a	JEF-2.2	4643	0.3025-13	0.5967-13	0.1163-06	0.2196-02	0.7237-05
		JENDL-3.2	4643				0.2045-02	0.2184-05
46-Pd-110	Total	JEF-2.2	4649	5.299	5.273	71.31	4.393	5.823
		ENDF/B-VI	4649	4.488	4.565	71.12	4.554	5.545
		JENDL-3.2	4649	5.245	5.219	73.35	4.477	5.593
	Elast.	JEF-2.2	4649	5.072	5.071	69.01	2.309	4.463
		ENDF/B-VI	4649	4.217	4.227	63.32	3.137	4.406
		JENDL-3.2	4649	5.018	5.017	70.71	2.387	4.174
	Inel.	JEF-2.2	4649				0.6543-03	1.336
		ENDF/B-VI	4649				1.414	1.098
		JENDL-3.2	4649				0.4127	1.385
	n,2n	JEF-2.2	4649				2.079	0.4459-02
		JENDL-3.2	4649				1.675	0.3169-02
	n,3n	JENDL-3.2	4649					0.1303-04
	n,g	JEF-2.2	4649	0.2273	0.2014	2.287	0.9037-03	0.2177-01
		ENDF/B-VI	4649	0.2214	0.1959	7.330	0.2506-02	0.3008-01
		JENDL-3.2	4649	0.2271	0.2010	2.646	0.1031-02	0.2823-01
	n,p	JEF-2.2	4649				0.3710-02	0.5771-05
		JENDL-3.2	4649				0.4267-02	0.2218-05
	n,d	JEF-2.2	4649				0.1112-02	0.9368-06
		JENDL-3.2	4649				0.3000-05	0.2133-07

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
46-Pd-110	n,t	JEF-2.2	4649				0.2128-04	0.1383-07
		JENDL-3.2	4649				0.4476-07	0.5459-08
	n,He3	JEF-2.2	4649				0.2170-05	0.1222-08
		JEF-2.2	4649				0.1177-02	0.3094-05
n,a	JEF-2.2	4649				0.8120-03	0.4594-06	
	JENDL-3.2	4649						
47-Ag- 0	Total	JENDL-3.2	4700	68.86	61.78	914.8	4.295	5.748
		CENDL-2	2470	68.91	61.80	915.5	4.299	5.649
	Elast.	JENDL-3.2	4700	5.205	5.196	152.8	2.544	4.060
		CENDL-2	2470	5.213	5.203	153.7	2.424	3.988
	Inel.	JENDL-3.2	4700			0.4500-03	0.3599	1.579
		CENDL-2	2470			0.1173-06	0.4743	1.527
	n,2n	JENDL-3.2	4700				1.366	0.1524-02
		CENDL-2	2470				1.349	0.1481-02
	n,3n	JENDL-3.2	4700					0.6129-06
		CENDL-2	2470					0.3710-06
	n,g	JENDL-3.2	4700	63.66	56.58	762.0	0.6657-04	0.1048
		CENDL-2	2470	63.70	56.60	761.8	0.2568-03	0.1320
	n,p	JENDL-3.2	4700				0.1435-01	0.3159-03
		CENDL-2	2470		0.2836-20	0.5443-11	0.1888-01	0.2812-03
n,d	CENDL-2	2470				0.2283-02	0.1710-05	
n,t	CENDL-2	2470				0.2799-05	0.1719-08	
n,He3	CENDL-2	2470				0.1354-10	0.6861-12	
n,a	JENDL-3.2	4700				0.4090-02	0.1282-04	
	CENDL-2	2470		0.2836-20	0.2872-11	0.1118-01	0.1830-03	
47-Ag-107	Total	JEF-2.2	4725	45.21	40.85	210.1	4.267	6.027
		ENDF/B-VI	4725	45.29	40.88	202.7	4.281	5.799
		JENDL-3.2	4725	46.38	41.90	195.8	4.260	5.689
		CENDL-2	2471	46.36	41.88	194.2	4.260	5.689
	Elast.	JEF-2.2	4725	7.575	7.566	103.2	2.710	4.362
		ENDF/B-VI	4725	7.455	7.463	98.36	2.495	4.058
		JENDL-3.2	4725	7.723	7.715	92.57	2.514	4.026
		CENDL-2	2471	7.708	7.701	91.76	2.514	4.036
	Inel.	JEF-2.2	4725				0.1419-01	1.561
		ENDF/B-VI	4725			0.5307-04	0.5434	1.616
		JENDL-3.2	4725			0.6482-04	0.3678	1.550
		CENDL-2	2471			0.2408-03	0.3678	1.541

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
47-Ag-107	n,2n	JEF-2.2	4725				1.490	0.1748-02
		ENDF/B-VI	4725				1.178	0.9795-03
		JENDL-3.2	4725				1.351	0.1304-02
		CENDL-2	2471				1.351	0.1304-02
	n,3n	ENDF/B-VI	4725					0.1154-06
		JENDL-3.2	4725					0.1587-06
		CENDL-2	2471					0.1587-06
	n,g	JEF-2.2	4725	37.64	33.29	106.9	0.8759-06	0.1015
		ENDF/B-VI	4725	37.76	33.41	104.3	0.2450-02	0.1194
		JENDL-3.2	4725	38.64	34.18	103.2	0.7843-04	0.1098
		CENDL-2	2471	38.66	34.18	102.4	0.7843-04	0.1097
	n,p	JEF-2.2	4725				0.1592-01	0.8961-04
		ENDF/B-VI	4725			0.7685-05	0.1500-01	0.2022-03
		JENDL-3.2	4725				0.1474-01	0.5053-03
		CENDL-2	2471				0.1474-01	0.5053-03
	n,d	JEF-2.2	4725				0.1430-01	0.1303-04
		ENDF/B-VI	4725				0.2175-01	0.3937-04
	n,t	JEF-2.2	4725				0.1700-02	0.6425-06
		ENDF/B-VI	4725				0.3815-02	0.3891-05
	n,He3	JEF-2.2	4725				0.2238-05	0.2310-08
		ENDF/B-VI	4725				0.1111-04	0.8547-08
	n,a	JEF-2.2	4725				0.2389-01	0.1028-03
		ENDF/B-VI	4725				0.3100-02	0.1630-04
		JENDL-3.2	4725				0.4215-02	0.1998-04
CENDL-2		2471				0.4215-02	0.1998-04	
47-Ag-109	Total	JEF-2.2	4731	93.12	83.16	1690.	4.327	5.679
		ENDF/B-VI	4731	93.53	83.45	1691.	4.330	5.818
		JENDL-3.2	4731	93.08	83.17	1689.	4.332	5.808
		BROND-2	4709	92.76	82.83	1683.	4.268	5.889
		CENDL-2	2472	93.15	83.22	1687.	4.332	5.808
	Elast.	JEF-2.2	4731	2.310	2.302	216.3	2.532	3.904
		ENDF/B-VI	4731	2.252	2.241	219.4	2.531	4.031
		JENDL-3.2	4731	2.494	2.485	217.6	2.578	4.101
		BROND-2	4709	2.169	2.160	212.9	2.810	4.217
		CENDL-2	2472	2.526	2.516	217.0	2.578	4.113
	Inel.	JEF-2.2	4731			0.1869-03	0.2700-01	1.638
		ENDF/B-VI	4731			0.1895-03	0.4348	1.683
		JENDL-3.2	4731			0.6232-03	0.3515	1.606
		BROND-2	4709			0.2562-03	0.4814-01	1.586
		CENDL-2	2472			0.6232-03	0.3515	1.594
	n,2n	JEF-2.2	4731				1.742	0.2718-02
		ENDF/B-VI	4731				1.336	0.1414-02
		JENDL-3.2	4731				1.382	0.1760-02
		BROND-2	4709				1.380	0.1841-02
		CENDL-2	2472				1.382	0.1760-02

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
47-Ag-109	n,3n	ENDF/B-VI	4731				0.5378-06	
		JENDL-3.2	4731				0.1102-05	
		CENDL-2	2472				0.1102-05	
	n,g	JEF-2.2	4731	90.81	80.86	1473.	0.1015-02	0.1335
		ENDF/B-VI	4731	91.03	81.17	1472.	0.3030-02	0.9131-01
		JENDL-3.2	4731	90.59	80.69	1471.	0.5380-04	0.9937-01
		BROND-2	4709	90.59	80.67	1470.	0.1400-02	0.8300-01
		CENDL-2	2472	90.63	80.70	1470.	0.5380-04	0.9929-01
	n,p	JEF-2.2	4731				0.1027-01	0.1612-04
		ENDF/B-VI	4731				0.1345-01	0.4449-04
		JENDL-3.2	4731				0.1392-01	0.1120-03
		BROND-2	4709				0.1662-01	0.1006-03
		CENDL-2	2472				0.1392-01	0.1120-03
	n,d	JEF-2.2	4731				0.2171-02	0.3557-05
		ENDF/B-VI	4731				0.1455-01	0.2141-04
	n,t	JEF-2.2	4731				0.1722-03	0.1674-06
		ENDF/B-VI	4731				0.2647-02	0.2587-05
	n,He3	JEF-2.2	4731				0.2154-05	0.1971-08
		ENDF/B-VI	4731				0.4138-05	0.2601-08
	n,a	JEF-2.2	4731				0.9881-02	0.9198-05
		ENDF/B-VI	4731				0.4830-02	0.1988-04
		JENDL-3.2	4731				0.3955-02	0.5114-05
		BROND-2	4709				0.1023-01	0.7826-04
CENDL-2		2472	0.3656-16	0.7214-16	0.1406-09	0.3955-02	0.5115-05	
47-Ag-110	Total	JENDL-3.2	4735	88.52	78.33	156.1	4.475	5.601
	Elast.	JENDL-3.2	4735	6.498	6.483	65.84	2.659	3.833
	Inel.	JENDL-3.2	4735			0.1603-01	0.1650	1.175
	n,2n	JENDL-3.2	4735				1.636	0.9822-02
	n,3n	JENDL-3.2	4735					0.3918-05
	n,g	JENDL-3.2	4735	82.02	71.85	90.23	0.1043-02	0.5780
	n,p	JENDL-3.2	4735				0.1210-01	0.7864-04
	n,d	JENDL-3.2	4735				0.1140-02	0.5402-06
	n,t	JENDL-3.2	4735				0.8768-04	0.7130-07
	n,He3	JENDL-3.2	4735				0.1775-12	0.1515-10
	n,a	JENDL-3.2	4735				0.2447-02	0.3838-05

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
47-Ag-111	Total	JEF-2.2	4737	7.266	6.937	169.6	4.569	5.530
		ENDF/B-VI	4737	7.398	7.591	174.5	4.569	5.532
	Elast.	JEF-2.2	4737	4.250	4.253	65.82	3.325	4.213
		ENDF/B-VI	4737	4.243	4.253	65.55	3.335	4.215
	Incl.	JEF-2.2	4737			0.4429-03	1.232	1.260
		ENDF/B-VI	4737			0.4429-03	1.232	1.260
	n,g	JEF-2.2	4737	3.004	2.661	103.6	0.1935-02	0.5211-01
		ENDF/B-VI	4737	3.019	2.670	103.8	0.1935-02	0.5224-01
	n,p	JEF-2.2	4737				0.8786-02	0.3660-04
	n,d	JEF-2.2	4737				0.1413-02	0.2188-05
	n,t	JEF-2.2	4737				0.1250-03	0.1170-06
	n,He3	JEF-2.2	4737				0.2022-05	0.1682-08
	n,a	JEF-2.2	4737				0.1662-02	0.4827-05
48-Cd- 0	Total	JEF-2.2	4800	2472.	2929.	157.5	4.620	5.676
		ENDF/B-VI	4800	2480.	2935.	157.2	4.620	5.681
		JENDL-3.2	4800	2550.	3016.	157.1	4.476	5.791
		CENDL-2	2480	2528.	2996.	181.8	4.465	5.887
	Elast.	JEF-2.2	4800	7.241	10.24	85.12	2.649	4.336
		ENDF/B-VI	4800	7.274	10.26	85.15	2.649	4.341
		JENDL-3.2	4800	7.717	10.88	89.40	2.521	4.567
		CENDL-2	2480	6.841	9.941	101.4	2.582	4.502
	Incl.	JEF-2.2	4800				0.3660	1.288
		ENDF/B-VI	4800				0.3660	1.288
		JENDL-3.2	4800				0.4085	1.170
		CENDL-2	2480				0.2995	1.326
	n,2n	JEF-2.2	4800				1.581	0.2051-02
		ENDF/B-VI	4800				1.581	0.2092-02
		JENDL-3.2	4800				1.524	0.4002-02
		CENDL-2	2480				1.584	0.4412-02
	n,3n	JENDL-3.2	4800					0.4872-05
		CENDL-2	2480					0.3041-05
	n,g	JEF-2.2	4800	2464.	2919.	71.89	0.2300-02	0.4790-01
		ENDF/B-VI	4800	2473.	2925.	72.02	0.2300-02	0.4792-01
		JENDL-3.2	4800	2542.	3005.	67.65	0.1058-02	0.4877-01
		CENDL-2	2480	2522.	2986.	80.37	0.2307-04	0.5188-01
	n,p	JEF-2.2	4800	0.7426-19	0.1466-18	0.2859-12	0.1859-01	0.6770-04
		ENDF/B-VI	4800				0.1860-01	0.6774-04
		JENDL-3.2	4800				0.1721-01	0.5271-04
		CENDL-2	2480				0.2665-02	0.5069-05

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
48-Cd-0	n,d	JENDL-3.2	4800				0.1494-03	0.1184-06
		CENDL-2	2480				0.4981-04	0.2731-07
	n,t	JENDL-3.2	4800				0.1416-05	0.9710-08
		CENDL-2	2480				0.5530-07	0.7392-10
n,He3	JENDL-3.2	4800				0.3011-09	0.1108-10	
	CENDL-2	2480				0.5876-13	0.5160-13	
n,a	JEF-2.2	4800	0.3999-19	0.7894-19	0.1540-12	0.2600-02	0.3994-05	
		ENDF/B-VI	4800			0.2600-02	0.3996-05	
	JENDL-3.2	4800				0.3521-02	0.8594-04	
		CENDL-2	2480		0.4619-15	0.1629-08	0.3431-03	0.4620-05
48-Cd-106	Total	JEF-2.2	4825	6.693	6.579	91.01	7.103	6.170
		ENDF/B-VI	4825	4.767	4.625	96.38	7.131	6.211
		JENDL-3.2	4825	6.519	6.410	99.05	4.476	5.601
	Elast.	JEF-2.2	4825	5.710	5.708	84.54	5.282	5.090
		ENDF/B-VI	4825	3.642	3.626	82.56	5.468	5.130
		JENDL-3.2	4825	5.549	5.549	89.11	2.371	4.512
	Inel.	JEF-2.2	4825				1.660	0.9957
		ENDF/B-VI	4825				1.660	0.9957
		JENDL-3.2	4825				0.8383	0.9030
	n,2n	JENDL-3.2	4825				0.8414	0.3279-03
	n,3n	JENDL-3.2	4825					0.1955-09
	n,g	JEF-2.2	4825	0.9834	0.8711	6.468	0.2790-02	0.7735-01
		ENDF/B-VI	4825	1.124	0.9989	13.82	0.2790-02	0.8505-01
		JENDL-3.2	4825	0.9700	0.8594	9.943	0.1701-02	0.1755
	n,p	JEF-2.2	4825			0.4070-05	0.1316	0.1274-02
		JENDL-3.2	4825				0.8700-01	0.1746-02
	n,d	JEF-2.2	4825				0.5515-02	0.6460-05
		JENDL-3.2	4825				0.2316-02	0.1133-05
	n,t	JEF-2.2	4825				0.5846-04	0.5077-07
		JENDL-3.2	4825				0.5068-05	0.2573-07
n,He3	JEF-2.2	4825				0.2417-05	0.3176-08	
	JENDL-3.2	4825				0.2394-07	0.8494-09	
n,a	JEF-2.2	4825			0.3299-06	0.2113-01	0.1132-03	
	JENDL-3.2	4825				0.1020	0.6209-02	
48-Cd-108	Total	ENDF/B-VI	4831	5.207	5.075	131.7	4.519	5.546
		JENDL-3.2	4831	6.646	6.524	135.6	4.474	5.601
Elast.	ENDF/B-VI	4831	4.100	4.092	115.1	3.175	4.712	
		JENDL-3.2	4831	5.559	5.558	109.0	2.446	4.500

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
48-Cd-108	Inel.	ENDF/B-VI	4831				1.342	0.7364
		JENDL-3.2	4831				0.9706	0.9670
	n,2n	JENDL-3.2	4831				0.9669	0.5736-03
	n,3n	JENDL-3.2	4831					0.1272-06
	n,g	ENDF/B-VI	4831	1.107	0.9829	16.65	0.2261-02	0.9755-01
		JENDL-3.2	4831	1.087	0.9635	26.57	0.3151-02	0.1328
	n,p	JENDL-3.2	4831				0.5938-01	0.4487-03
	n,d	JENDL-3.2	4831				0.3925-03	0.2653-06
	n,t	JENDL-3.2	4831				0.1563-05	0.1751-07
	n,He3	JENDL-3.2	4831				0.1995-09	0.5195-10
n,a	JENDL-3.2	4831				0.1208-01	0.2071-03	
48-Cd-110	Total	JEF-2.2	4837	14.39	13.12	145.3	4.554	5.528
		ENDF/B-VI	4837	29.51	28.28	223.4	4.555	5.516
		JENDL-3.2	4837	16.96	15.69	153.3	4.475	5.598
	Elast.	JEF-2.2	4837	3.268	3.268	103.0	3.154	4.658
		ENDF/B-VI	4837	18.44	18.46	182.1	3.188	4.651
		JENDL-3.2	4837	5.901	5.898	114.4	2.474	4.509
	Inel.	JEF-2.2	4837				1.365	0.7522
		ENDF/B-VI	4837				1.365	0.7521
		JENDL-3.2	4837				0.8321	1.012
	n,2n	JENDL-3.2	4837				1.139	0.8595-03
	n,3n	JENDL-3.2	4837					0.1001-05
	n,g	JEF-2.2	4837	11.11	9.847	42.23	0.2149-02	0.1144
		ENDF/B-VI	4837	11.06	9.823	41.29	0.2154-02	0.1134
		JENDL-3.2	4837	11.06	9.790	38.90	0.1096-02	0.7504-01
	n,p	JEF-2.2	4837				0.2664-01	0.7347-04
		JENDL-3.2	4837				0.2642-01	0.5358-04
	n,d	JEF-2.2	4837				0.2696-02	0.2706-05
		JENDL-3.2	4837				0.1040-03	0.1136-06
	n,t	JEF-2.2	4837				0.2719-04	0.2136-07
		JENDL-3.2	4837				0.2960-06	0.8497-08
	n,He3	JEF-2.2	4837				0.2233-05	0.2402-08
	n,a	JEF-2.2	4837			0.4367-07	0.5465-02	0.1636-04
		JENDL-3.2	4837				0.5478-02	0.1860-04

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
48-Cd-111	Total	JEF-2.2	4840	29.82	27.01	133.6	4.613	5.924
		ENDF/B-VI	4840	28.07	25.34	121.6	4.569	5.550
		JENDL-3.2	4840	29.05	26.20	125.0	4.475	5.594
	Elast.	JEF-2.2	4840	6.106	6.097	85.50	2.702	4.370
		ENDF/B-VI	4840	3.699	3.708	67.39	3.107	4.143
		JENDL-3.2	4840	5.097	5.095	76.24	2.629	4.063
	Inel.	JEF-2.2	4840				0.3803-01	1.500
		ENDF/B-VI	4840				1.460	1.337
		JENDL-3.2	4840				0.2272	1.359
	n,2n	JEF-2.2	4840				1.843	0.7443-02
		JENDL-3.2	4840				1.575	0.8206-02
	n,3n	JENDL-3.2	4840					0.1444-05
	n,g	JEF-2.2	4840	23.73	20.91	48.04	0.2175-02	0.4648-01
		ENDF/B-VI	4840	24.46	21.64	54.18	0.2644-02	0.5980-01
		JENDL-3.2	4840	23.95	21.10	48.78	0.1006-02	0.1598
	n,p	JEF-2.2	4840				0.2079-01	0.1450-03
		JENDL-3.2	4840				0.4382-01	0.1144-03
	n,d	JEF-2.2	4840				0.2066-02	0.2600-05
		JENDL-3.2	4840				0.5381-03	0.3110-06
	n,t	JEF-2.2	4840				0.1805-03	0.1746-06
JENDL-3.2		4840				0.5914-05	0.2121-07	
n,He3	JEF-2.2	4840				0.2192-05	0.2059-08	
n,a	JEF-2.2	4840			0.7949-07	0.4412-02	0.2654-04	
	JENDL-3.2	4840				0.3850-02	0.2266-04	
48-Cd-112	Total	JEF-2.2	4843	10.16	9.908	107.7	4.584	5.533
		ENDF/B-VI	4843	8.583	8.344	95.48	4.585	5.536
		JENDL-3.2	4843	9.244	8.996	101.7	4.475	5.593
	Elast.	JEF-2.2	4843	7.964	7.963	94.37	3.154	4.575
		ENDF/B-VI	4843	6.376	6.384	82.36	3.166	4.582
		JENDL-3.2	4843	7.051	7.050	88.68	2.453	4.438
	Inel.	JEF-2.2	4843				1.416	0.8603
		ENDF/B-VI	4843				1.416	0.8603
		JENDL-3.2	4843				0.4504	1.090
	n,2n	JENDL-3.2	4843				1.560	0.1612-02
	n,3n	JENDL-3.2	4843					0.3180-05
	n,g	JEF-2.2	4843	2.197	1.946	13.34	0.2032-02	0.9447-01
		ENDF/B-VI	4843	2.206	1.959	13.13	0.2037-02	0.9368-01
		JENDL-3.2	4843	2.193	1.944	13.06	0.1046-02	0.6306-01

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
48-Cd-112	n,p	JEF-2.2	4843				0.1018-01	0.1970-04
		JENDL-3.2	4843				0.1326-01	0.1232-04
	n,d	JEF-2.2	4843				0.2021-02	0.1897-05
		JENDL-3.2	4843				0.3659-04	0.7855-07
	n,t	JEF-2.2	4843				0.1926-04	0.1438-07
		JENDL-3.2	4843				0.6190-07	0.5768-08
	n,He3	JEF-2.2	4843				0.2152-05	0.2023-08
	n,a	JEF-2.2	4843	0.2390-13	0.4718-13	0.9200-07	0.2878-02	0.6590-05
		JENDL-3.2	4843				0.2460-02	0.3284-05
	48-Cd-113	Total	JEF-2.2	4846	0.2077+05	0.2462+05	484.8	4.620
ENDF/B-VI			4846	0.2005+05	0.2376+05	476.4	4.620	5.708
JENDL-3.2			4846	0.2079+05	0.2461+05	487.9	4.474	5.596
Elast.		JEF-2.2	4846	25.69	51.82	91.67	2.648	4.131
		ENDF/B-VI	4846	22.12	45.73	93.29	2.650	4.131
		JENDL-3.2	4846	25.86	51.57	93.82	2.657	4.108
Incl.		JEF-2.2	4846				0.2160	1.505
		ENDF/B-VI	4846				0.2160	1.508
		JENDL-3.2	4846				0.1827	1.394
n,2n		JEF-2.2	4846				1.737	0.5100-02
		ENDF/B-VI	4846				1.737	0.5202-02
		JENDL-3.2	4846				1.628	0.1255-01
n,3n		JENDL-3.2	4846					0.4209-05
n,g		JEF-2.2	4846	0.2074+05	0.2457+05	393.1	0.2800-02	0.5845-01
		ENDF/B-VI	4846	0.2003+05	0.2372+05	383.0	0.2800-02	0.5850-01
		JENDL-3.2	4846	0.2076+05	0.2455+05	394.1	0.1001-02	0.7766-01
n,p		JEF-2.2	4846				0.1270-01	0.1678-04
		ENDF/B-VI	4846				0.1270-01	0.1679-04
		JENDL-3.2	4846				0.9094-02	0.8934-05
n,d		JEF-2.2	4846				0.2039-02	0.1775-05
		JENDL-3.2	4846				0.2082-03	0.1638-06
n,t		JEF-2.2	4846				0.1316-03	0.1236-06
		JENDL-3.2	4846				0.4299-05	0.2158-07
n,He3		JEF-2.2	4846				0.2057-05	0.1722-08
n,a		JEF-2.2	4846				0.1700-02	0.6880-06
		ENDF/B-VI	4846				0.1700-02	0.6882-06
		JENDL-3.2	4846				0.1808-02	0.2824-05

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
48-Cd-114	Total	JEF-2.2	4849	3.779	3.739	104.3	4.608	5.538
		ENDF/B-VI	4849	4.843	4.811	116.5	4.609	5.531
		JENDL-3.2	4849	6.267	6.229	133.1	4.474	5.595
	Elast.	JEF-2.2	4849	3.442	3.442	87.49	3.289	4.667
		ENDF/B-VI	4849	4.505	4.511	103.6	3.295	4.703
		JENDL-3.2	4849	5.926	5.926	116.4	2.506	4.405
	Inel.	JEF-2.2	4849				1.312	0.7696
		ENDF/B-VI	4849				1.312	0.7696
		JENDL-3.2	4849				0.3469	1.147
	n,2n	JENDL-3.2	4849				1.618	0.2395-02
	n,3n	JENDL-3.2	4849					0.7414-05
	n,g	JEF-2.2	4849	0.3364	0.2981	16.73	0.1929-02	0.9808-01
		ENDF/B-VI	4849	0.3377	0.2998	12.97	0.1933-02	0.5858-01
		JENDL-3.2	4849	0.3406	0.3019	16.74	0.1020-02	0.3955-01
	n,p	JEF-2.2	4849				0.4047-02	0.6230-05
		JENDL-3.2	4849				0.7816-02	0.4573-05
	n,d	JEF-2.2	4849				0.1272-02	0.1114-05
		JENDL-3.2	4849				0.3255-05	0.2728-07
	n,t	JEF-2.2	4849				0.1382-04	0.1021-07
		JENDL-3.2	4849				0.1379-07	0.4103-08
n,He3	JEF-2.2	4849				0.2075-05	0.1706-08	
n,a	JEF-2.2	4849	0.3678-14	0.7262-14	0.1416-07	0.5501-03	0.1088-05	
	JENDL-3.2	4849				0.4956-03	0.2981-06	
48-Cd-115	Total	JEF-2.2	4852	35.43	31.96	267.0	4.619	5.528
		ENDF/B-VI	4853	35.41	31.95	267.1	4.619	5.521
	Elast.	JEF-2.2	4852	4.384	4.443	70.69	3.106	4.586
		ENDF/B-VI	4853	4.367	4.372	70.38	3.109	4.581
	Inel.	JEF-2.2	4852				1.507	0.8925
		ENDF/B-VI	4853				1.507	0.8924
	n,g	JEF-2.2	4852	31.04	27.50	196.0	0.2392-02	0.4671-01
		ENDF/B-VI	4853	31.05	27.58	196.7	0.2398-02	0.4687-01
	n,p	JEF-2.2	4852				0.1715-02	0.4789-05
	n,d	JEF-2.2	4852				0.1536-02	0.1247-05
	n,t	JEF-2.2	4852				0.9714-04	0.8801-07
	n,He3	JEF-2.2	4852				0.6873-06	0.3640-09
	n,a	JEF-2.2	4852			0.8429-08	0.9520-03	0.3146-05

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
48-Cd-116	Total	JEF-2.2	4855	4.327	4.320	64.19	4.628	5.547
		ENDF/B-VI	4855	5.516	5.514	72.59	4.628	5.533
		JENDL-3.2	4855	6.084	6.076	78.32	4.475	5.592
	Elast.	JEF-2.2	4855	4.252	4.252	61.93	3.141	4.632
		ENDF/B-VI	4855	5.440	5.447	71.01	3.144	4.632
		JENDL-3.2	4855	6.009	6.009	76.70	2.512	4.403
	Inel.	JEF-2.2	4855				1.482	0.8672
		ENDF/B-VI	4855				1.482	0.8672
		JENDL-3.2	4855				0.3430	1.161
	n,2n	JENDL-3.2	4855				1.623	0.2988-02
	n,3n	JENDL-3.2	4855					0.1534-04
	n,g	JEF-2.2	4855	0.7694-01	0.6817-01	2.239	0.1833-02	0.4288-01
		ENDF/B-VI	4855	0.7542-01	0.6694-01	1.577	0.1837-02	0.3436-01
		JENDL-3.2	4855	0.7488-01	0.6636-01	1.625	0.1002-02	0.2179-01
	n,p	JEF-2.2	4855				0.2391-02	0.3031-05
		JENDL-3.2	4855				0.1788-02	0.8513-06
	n,d	JEF-2.2	4855				0.8916-03	0.7348-06
		JENDL-3.2	4855				0.3142-06	0.1239-07
	n,t	JEF-2.2	4855				0.1005-04	0.7074-08
		JENDL-3.2	4855				0.5894-08	0.3258-08
n,He3	JEF-2.2	4855				0.6097-06	0.3271-09	
n,a	JEF-2.2	4855	0.3837-14	0.7578-14	0.1478-07	0.5600-03	0.1049-05	
	JENDL-3.2	4855				0.6782-04	0.3778-07	
49-In- 0	Total	ENDF/B-VI	4900	197.6	178.6	3297.	4.555	5.801
		CENDL-2	2490	202.3	183.1	3361.	4.504	5.796
	Elast.	ENDF/B-VI	4900	2.495	2.474	197.6	2.538	4.576
		CENDL-2	2490	2.663	2.641	195.9	2.574	4.538
	Inel.	ENDF/B-VI	4900				0.2905	1.046
		CENDL-2	2490				0.4362	1.070
	n,2n	ENDF/B-VI	4900				1.720	0.1783-02
		CENDL-2	2490				1.482	0.1727-02
	n,3n	ENDF/B-VI	4900					0.2413-05
		CENDL-2	2490					0.1161-05
	n,g	ENDF/B-VI	4900	195.2	176.1	3099.	0.6400-03	0.1769
		CENDL-2	2490	199.7	180.4	3165.	0.4739-04	0.1873
	n,p	ENDF/B-VI	4900				0.1400-01	0.2979-04
		CENDL-2	2490	0.9653-09	0.9122-09	0.1221-07	0.9670-02	0.3058-04

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
49-In- 0	n,d	ENDF/B-VI	4900	0.2567-09	0.2472-09	0.3217-08	0.8200-06	0.2403-08
		CENDL-2	2490				0.9202-03	0.5051-06
	n,t	ENDF/B-VI	4900				0.3000-07	0.3494-09
		CENDL-2	2490				0.7377-06	0.6367-09
n,He3	CENDL-2	2490	0.8756-14	0.2260-13				
n,a	ENDF/B-VI	4900	0.2441-02	0.3249-05				
	CENDL-2	2490	0.2032-03	0.5519-06				
49-In-113	Total	JEF-2.2	4925	15.84	14.60	399.0	4.597	5.536
		ENDF/B-VI	4925	15.14	13.92	299.2	4.597	5.534
		JENDL-3.2	4925	15.78	14.53	408.6	4.635	5.540
	Elast.	JEF-2.2	4925	3.799	3.796	77.82	3.143	4.665
		ENDF/B-VI	4925	3.729	3.718	72.89	3.174	4.646
		JENDL-3.2	4925	3.696	3.693	84.38	2.511	4.453
	Inel.	JEF-2.2	4925				1.420	0.6205
		ENDF/B-VI	4925				1.420	0.6205
		JENDL-3.2	4925				0.5653	0.8827
	n,2n	JENDL-3.2	4925				1.530	0.1181-02
	n,3n	JENDL-3.2	4925					0.8966-06
	n,g	JEF-2.2	4925	12.04	10.80	321.1	0.2243-02	0.2451
		ENDF/B-VI	4925	11.47	10.20	225.5	0.2243-02	0.2454
		JENDL-3.2	4925	12.08	10.84	324.2	0.1001-02	0.2008
	n,p	JEF-2.2	4925			0.1073-05	0.2541-01	0.3195-03
		JENDL-3.2	4925				0.2258-01	0.5846-04
	n,d	JEF-2.2	4925				0.2438-02	0.4294-05
		JENDL-3.2	4925				0.1134-02	0.5825-06
	n,t	JEF-2.2	4925				0.1897-03	0.1881-06
JENDL-3.2		4925				0.1009-04	0.4024-07	
n,He3	JEF-2.2	4925				0.2229-05	0.2355-08	
	JENDL-3.2	4925				0.2836-15	0.2152-10	
n,a	JEF-2.2	4925			0.4048-07	0.4321-02	0.1444-04	
	JENDL-3.2	4925				0.4268-02	0.5310-05	
49-In-115	Total	JEF-2.2	4931	204.9	185.3	3416.	4.619	5.542
		JENDL-3.2	4931	203.7	184.2	3406.	4.635	5.539
	Elast.	JEF-2.2	4931	2.556	2.533	194.7	3.216	4.644
JENDL-3.2		4931	2.537	2.514	196.6	2.944	4.448	
Inel.	JEF-2.2	4931				1.377	0.7599	
	JENDL-3.2	4931				0.2180	0.9237	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
49-In-115	n,2n	JENDL-3.2	4931				1.460	0.1554-02
	n,3n	JENDL-3.2	4931					0.2789-05
	n,g	JEF-2.2	4931	202.4	182.8	3221.	0.2106-02	0.1343
		ENDF/B-VI	4931	212.0	191.2	3281.	0.1225-02	0.1593
		JENDL-3.2	4931	201.2	181.7	3209.	0.1021-02	0.1626
	n,p	JEF-2.2	4931				0.2158-01	0.1514-03
		JENDL-3.2	4931				0.7280-02	0.1112-04
	n,d	JEF-2.2	4931				0.1591-02	0.2673-05
		JENDL-3.2	4931				0.3506-03	0.2830-06
	n,t	JEF-2.2	4931				0.1390-03	0.1361-06
JENDL-3.2		4931				0.2515-05	0.3063-07	
n,He3	JEF-2.2	4931				0.2093-05	0.2027-08	
n,a	JEF-2.2	4931	0.2454-13	0.4846-13	0.9453-07	0.2320-02	0.6200-05	
	JENDL-3.2	4931				0.1999-02	0.2137-05	
50-Sn- 0	Total	BROND-2	5000	5.551	5.479	76.14	4.633	5.694
		CENDL-2	2500	6.284	8.156	81.37	4.579	5.737
	Elast.	BROND-2	5000	4.926	4.925	69.72	2.698	4.796
		CENDL-2	2500	4.277	4.277	71.30	2.689	4.893
	Inel.	BROND-2	5000			0.2862-01	0.4032	0.8485
		CENDL-2	2500			0.2123-01	0.4622	0.8113
	n,2n	BROND-2	5000				1.519	0.3506-02
		CENDL-2	2500				1.416	0.3384-02
	n,3n	BROND-2	5000					0.2953-05
		CENDL-2	2500					0.1323-04
	n,g	BROND-2	5000	0.6255	0.5535	6.389	0.1023-02	0.4549-01
		CENDL-2	2500	2.005	3.879	10.04	0.7875-03	0.2957-01
	n,p	BROND-2	5000				0.9933-02	0.5701-04
		CENDL-2	2500				0.1346-01	0.1409-04
	n,d	CENDL-2	2500				0.3316-04	0.2166-07
	n,t	CENDL-2	2500				0.1693-07	0.5363-10
n,He3	CENDL-2	2500					0.7716-14	
n,a	BROND-2	5000				0.1226-02	0.8184-06	
	CENDL-2	2500				0.3887-04	0.1479-06	

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
50-Sn-112	Total	JEF-2.2	5025	5.305	5.223	112.6	4.666	5.734
		ENDF/B-VI	5025	6.404	6.280	120.9	7.354	6.268
		JENDL-3.2	5025	5.619	5.505	113.3	4.637	5.538
	Elast.	JEF-2.2	5025	4.576	4.575	82.71	2.747	4.988
		ENDF/B-VI	5025	5.258	5.262	91.18	5.632	5.427
		JENDL-3.2	5025	4.609	4.609	83.26	2.930	4.784
	Inel.	JEF-2.2	5025				0.6883	0.6305
		ENDF/B-VI	5025				1.720	0.6674
		JENDL-3.2	5025				0.4184	0.6417
	n,2n	JEF-2.2	5025				1.132	0.4884-03
		JENDL-3.2	5025				1.143	0.4901-03
	n,3n	JENDL-3.2	5025					0.7521-08
	n,g	JEF-2.2	5025	0.7316	0.6482	29.89	0.1043-02	0.1125
		ENDF/B-VI	5025	1.146	1.018	29.72	0.2460-02	0.1732
		JENDL-3.2	5025	1.009	0.8942	30.07	0.1115-02	0.1089
	n,p	JEF-2.2	5025				0.5051-01	0.1124-02
		JENDL-3.2	5025				0.3371-01	0.2198-03
	n,d	JEF-2.2	5025				0.5930-02	0.6979-05
JENDL-3.2		5025				0.1223-02	0.6990-06	
n,t	JEF-2.2	5025				0.4395-04	0.3683-07	
	JENDL-3.2	5025				0.5709-07	0.2015-07	
n,He3	JEF-2.2	5025				0.2396-05	0.3420-08	
	JENDL-3.2	5025				0.7358-09	0.1786-09	
n,a	JEF-2.2	5025				0.2263-01	0.2458-03	
	JENDL-3.2	5025				0.1344-01	0.1522-03	
50-Sn-114	Total	JEF-2.2	5031	6.790	6.667	77.99	7.312	6.264
		ENDF/B-VI	5031	6.821	6.706	78.23	7.354	6.277
		JENDL-3.2	5031	4.691	4.677	87.85	4.636	5.536
	Elast.	JEF-2.2	5031	5.691	5.691	74.53	5.555	5.377
		ENDF/B-VI	5031	5.719	5.727	74.79	5.642	5.390
		JENDL-3.2	5031	4.566	4.566	81.52	2.914	4.792
	Inel.	JEF-2.2	5031				1.710	0.7294
		ENDF/B-VI	5031				1.710	0.7294
		JENDL-3.2	5031				0.4568	0.6517
	n,2n	JENDL-3.2	5031				1.223	0.6680-03
	n,3n	JENDL-3.2	5031					0.1923-06
	n,g	JEF-2.2	5031	1.102	0.9763	3.436	0.1860-02	0.1578
		ENDF/B-VI	5031	1.102	0.9791	3.443	0.1860-02	0.1578
		JENDL-3.2	5031	0.1253	0.1111	6.331	0.1025-02	0.8933-01

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
50-Sn-114	n,p	JEF-2.2	5031				0.3548-01	0.1207-03
		JENDL-3.2	5031				0.3571-01	0.6182-04
	n,d	JEF-2.2	5031				0.3001-02	0.3131-05
		JENDL-3.2	5031				0.3303-03	0.3033-06
	n,t	JEF-2.2	5031				0.3249-04	0.2586-07
		JENDL-3.2	5031				0.1753-08	0.1303-07
	n,He3	JEF-2.2	5031				0.2308-05	0.3056-08
		JENDL-3.2	5031				0.1434-12	0.1467-10
	n,a	JEF-2.2	5031			0.9239-07	0.6573-02	0.2839-04
		JENDL-3.2	5031				0.6619-02	0.2174-04
50-Sn-115	Total	JEF-2.2	5034	54.36	48.65	89.68	4.619	5.542
		ENDF/B-VI	5034	54.43	48.82	89.82	4.619	5.540
		JENDL-3.2	5034	38.28	34.81	89.29	4.636	5.536
	Elast.	JEF-2.2	5034	4.301	4.300	65.96	3.067	4.495
		ENDF/B-VI	5034	4.316	4.306	65.84	3.101	4.490
		JENDL-3.2	5034	8.407	8.396	75.90	2.918	4.359
	Inel.	JEF-2.2	5034				1.515	1.033
		ENDF/B-VI	5034				1.515	1.033
		JENDL-3.2	5034				0.2320	1.090
	n,2n	JENDL-3.2	5034				1.458	0.4780-02
	n,3n	JENDL-3.2	5034					0.2528-06
	n,g	JEF-2.2	5034	50.06	44.35	23.68	0.2763-02	0.6198-02
		ENDF/B-VI	5034	50.33	44.52	23.93	0.2763-02	0.6211-02
		JENDL-3.2	5034	29.86	26.40	13.38	0.1003-02	0.8056-01
	n,p	JEF-2.2	5034			0.6574-06	0.2802-01	0.2135-03
		JENDL-3.2	5034				0.2491-01	0.6222-04
	n,d	JEF-2.2	5034				0.2223-02	0.3071-05
		JENDL-3.2	5034				0.8162-03	0.4438-06
	n,t	JEF-2.2	5034				0.1978-03	0.1896-06
		JENDL-3.2	5034				0.2678-05	0.3212-07
	n,He3	JEF-2.2	5034				0.2267-05	0.2663-08
		JENDL-3.2	5034				0.7364-15	0.2034-10
n,a	JEF-2.2	5034			0.1521-06	0.5342-02	0.4337-04	
	JENDL-3.2	5034				0.4743-02	0.3174-04	
50-Sn-116	Total	JEF-2.2	5037	4.124	4.110	88.43	4.628	5.546
		ENDF/B-VI	5037	4.118	4.116	88.43	4.628	5.548
		JENDL-3.2	5037	4.458	4.444	95.62	4.636	5.542

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
50-Sn-116	Elast.	JEF-2.2	5037	4.004	4.003	76.80	3.129	5.074
		ENDF/B-VI	5037	4.015	4.010	76.76	3.148	5.052
		JENDL-3.2	5037	4.330	4.330	83.46	2.921	4.806
	Inel.	JEF-2.2	5037				1.478	0.4409
		ENDF/B-VI	5037				1.478	0.4409
		JENDL-3.2	5037				0.3048	0.6765
	n,2n	JENDL-3.2	5037				1.392	0.1233-02
	n,3n	JENDL-3.2	5037					0.1042-05
	n,g	JEF-2.2	5037	0.1205	0.1068	11.60	0.2204-02	0.2956-01
		ENDF/B-VI	5037	0.1209	0.1072	11.62	0.2204-02	0.2959-01
		JENDL-3.2	5037	0.1278	0.1133	12.17	0.1014-02	0.5601-01
	n,p	JEF-2.2	5037				0.1747-01	0.3712-04
		JENDL-3.2	5037				0.1694-01	0.1440-04
	n,d	JEF-2.2	5037				0.2067-02	0.1996-05
		JENDL-3.2	5037				0.2507-04	0.8674-07
	n,t	JEF-2.2	5037				0.2326-04	0.1815-07
		JENDL-3.2	5037				0.3480-10	0.7883-08
	n,He3	JEF-2.2	5037				0.2227-05	0.2565-08
n,a	JEF-2.2	5037				0.3304-02	0.1135-04	
	JENDL-3.2	5037				0.3186-02	0.3897-05	
50-Sn-117	Total	JEF-2.2	5040	6.860	6.567	82.65	4.636	5.551
		ENDF/B-VI	5040	6.865	6.582	82.71	4.636	5.553
		JENDL-3.2	5040	7.301	7.053	86.33	4.635	5.536
	Elast.	JEF-2.2	5040	4.263	4.261	64.26	3.091	4.349
		ENDF/B-VI	5040	4.279	4.272	64.20	3.108	4.338
		JENDL-3.2	5040	5.126	5.126	68.46	2.923	4.228
	Inel.	JEF-2.2	5040				1.525	1.157
		ENDF/B-VI	5040				1.525	1.157
		JENDL-3.2	5040				0.1340	1.243
	n,2n	JENDL-3.2	5040				1.563	0.9607-02
	n,3n	JENDL-3.2	5040					0.1830-05
	n,g	JEF-2.2	5040	2.601	2.305	18.32	0.2665-02	0.4066-01
		ENDF/B-VI	5040	2.615	2.314	18.40	0.2667-02	0.4073-01
		JENDL-3.2	5040	2.174	1.926	17.86	0.1003-02	0.5453-01
	n,p	JEF-2.2	5040				0.1346-01	0.6649-04
		JENDL-3.2	5040				0.1179-01	0.1338-04
	n,d	JEF-2.2	5040				0.1175-02	0.1067-05
		JENDL-3.2	5040				0.5532-03	0.4276-06

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
50-Sn-117	n,t	JEF-2.2	5040				0.1458-03	0.1387-06
		JENDL-3.2	5040				0.7612-07	0.1364-07
	n,He3	JEF-2.2	5040				0.2128-05	0.2379-08
	n,a	JEF-2.2	5040			0.6127-07	0.2647-02	0.1770-04
JENDL-3.2		5040				0.2289-02	0.4431-05	
50-Sn-118	Total	JEF-2.2	5043	4.205	4.195	77.95	4.642	5.557
		ENDF/B-VI	5043	4.204	4.203	77.97	4.642	5.558
		JENDL-3.2	5043	4.458	4.433	79.51	4.636	5.539
	Elast.	JEF-2.2	5043	4.122	4.122	71.93	3.148	5.038
		ENDF/B-VI	5043	4.136	4.126	71.96	3.155	5.011
		JENDL-3.2	5043	4.240	4.240	74.30	2.928	4.801
	Inel.	JEF-2.2	5043				1.485	0.4478
		ENDF/B-VI	5043				1.485	0.4478
		JENDL-3.2	5043				0.3067	0.7000
	n,2n	JENDL-3.2	5043				1.397	0.1473-02
	n,3n	JENDL-3.2	5043					0.2660-05
	n,g	JEF-2.2	5043	0.8247-01	0.7307-01	5.994	0.2083-02	0.6977-01
		ENDF/B-VI	5043	0.8292-01	0.7334-01	5.997	0.2082-02	0.6982-01
		JENDL-3.2	5043	0.2180	0.1931	5.213	0.1002-02	0.3186-01
	n,p	JEF-2.2	5043				0.5391-02	0.9295-05
		JENDL-3.2	5043				0.5531-02	0.3380-05
	n,d	JEF-2.2	5043				0.1445-02	0.1324-05
		JENDL-3.2	5043				0.1634-05	0.5092-07
	n,t	JEF-2.2	5043				0.1685-04	0.1252-07
		JENDL-3.2	5043				0.2973-12	0.4774-08
	n,He3	JEF-2.2	5043				0.2090-05	0.2184-08
	n,a	JEF-2.2	5043				0.1143-02	0.3319-05
JENDL-3.2		5043				0.6607-03	0.4083-06	
50-Sn-119	Total	JEF-2.2	5046	6.726	6.467	70.45	4.648	5.564
		ENDF/B-VI	5046	6.754	6.482	70.53	4.648	5.565
		JENDL-3.2	5046	6.873	6.621	72.98	4.636	5.536
	Elast.	JEF-2.2	5046	4.427	4.426	66.00	3.214	4.313
		ENDF/B-VI	5046	4.445	4.439	66.11	3.221	4.310
		JENDL-3.2	5046	4.696	4.695	67.19	2.931	4.134
	Inel.	JEF-2.2	5046			0.5260	1.424	1.238
		ENDF/B-VI	5046			0.5260	1.424	1.238
		JENDL-3.2	5046			0.6392	0.1218	1.351

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
50-Sn-119	n,2n	JENDL-3.2	5046				1.578	0.1412-01
	n,3n	JENDL-3.2	5046					0.3951-05
	n,g	JEF-2.2	5046	2.302	2.040	3.883	0.2573-02	0.7870-02
		ENDF/B-VI	5046	2.315	2.048	3.862	0.2573-02	0.7886-02
		JENDL-3.2	5046	2.177	1.925	5.150	0.1001-02	0.3449-01
	n,p	JEF-2.2	5046				0.4790-02	0.1605-04
		JENDL-3.2	5046				0.4424-02	0.3039-05
	n,d	JEF-2.2	5046				0.7129-03	0.6157-06
		JENDL-3.2	5046				0.1405-03	0.1647-06
	n,t	JEF-2.2	5046				0.1085-03	0.9912-07
		JENDL-3.2	5046				0.3353-07	0.1459-07
	n,He3	JEF-2.2	5046				0.9291-06	0.6273-09
n,a	JEF-2.2	5046			0.2158-07	0.1270-02	0.6586-05	
	JENDL-3.2	5046				0.1070-02	0.8249-06	
50-Sn-120	Total	JEF-2.2	5049	4.547	4.533	59.73	4.653	5.569
		JENDL-3.2	5049	5.502	5.486	65.63	4.636	5.533
	Elast.	JEF-2.2	5049	4.410	4.408	58.54	3.117	5.064
		JENDL-3.2	5049	5.362	5.362	64.49	2.928	4.790
	Inel.	JEF-2.2	5049				1.529	0.4861
		JENDL-3.2	5049				0.2300	0.7208
	n,2n	JENDL-3.2	5049				1.476	0.2068-02
	n,3n	JENDL-3.2	5049					0.5512-05
	n,g	JEF-2.2	5049	0.1412	0.1251	1.186	0.1994-02	0.1705-01
		ENDF/B-VI	5049	0.1415	0.1254	1.179	0.1994-02	0.1707-01
		JENDL-3.2	5049	0.1393	0.1234	1.146	0.1001-02	0.1786-01
	n,p	JEF-2.2	5049				0.3483-02	0.4735-05
		JENDL-3.2	5049				0.3309-02	0.1601-05
	n,d	JEF-2.2	5049				0.1024-02	0.8575-06
		JENDL-3.2	5049				0.1957-07	0.3161-07
	n,t	JEF-2.2	5049				0.1236-04	0.8745-08
		JENDL-3.2	5049				0.2746-13	0.4076-08
	n,He3	JEF-2.2	5049				0.7748-06	0.3715-09
n,a	JEF-2.2	5049				0.7857-03	0.1883-05	
	JENDL-3.2	5049				0.2540-03	0.1564-06	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
50-Sn-122	Total	JEF-2.2	5055	4.386	4.365	63.54	4.660	5.587
		JENDL-3.2	5055	3.995	3.974	58.06	4.635	5.535
	Elast.	JEF-2.2	5055	4.206	4.205	62.83	3.139	5.048
		JENDL-3.2	5055	3.811	3.811	57.17	2.930	4.818
	Inel.	JEF-2.2	5055				1.516	0.5236
		JENDL-3.2	5055				0.1723	0.7020
	n,2n	JENDL-3.2	5055				1.535	0.2767-02
	n,3n	JENDL-3.2	5055					0.9402-05
	n,g	JEF-2.2	5055	0.1812	0.1605	0.7084	0.1922-02	0.1274-01
		ENDF/B-VI	5055	0.1814	0.1610	0.7131	0.1921-02	0.1276-01
		JENDL-3.2	5055	0.1838	0.1625	0.8858	0.1001-02	0.1037-01
	n,p	JEF-2.2	5055				0.2240-02	0.2757-05
		JENDL-3.2	5055				0.7145-03	0.3468-06
	n,d	JEF-2.2	5055				0.7344-03	0.5823-06
		JENDL-3.2	5055				0.3457-09	0.9303-08
	n,t	JEF-2.2	5055				0.9157-05	0.6048-08
		JENDL-3.2	5055				0.1246-15	0.2265-08
	n,He3	JEF-2.2	5055				0.2766-06	0.9698-10
	n,a	JEF-2.2	5055			0.7807-09	0.3711-03	0.1069-05
JENDL-3.2		5055				0.4419-04	0.3677-07	
50-Sn-123	Total	JEF-2.2	5058	4.586	4.606	70.83	4.662	5.597
		ENDF/B-VI	5058	4.598	4.616	71.01	4.662	5.596
		JENDL-3.2	5058	7.038	6.706	181.8	4.637	5.536
	Elast.	JEF-2.2	5058	4.550	4.566	68.20	3.527	4.957
		ENDF/B-VI	5058	4.562	4.556	68.26	3.529	4.944
		JENDL-3.2	5058	4.018	4.017	119.3	2.929	4.540
	Inel.	JEF-2.2	5058				1.130	0.5972
		ENDF/B-VI	5058			0.5038-03	1.130	0.5972
		JENDL-3.2	5058			0.7556-03	0.7963-01	0.9094
	n,2n	JENDL-3.2	5058				1.628	0.2349-01
	n,3n	JENDL-3.2	5058					0.9959-05
	n,g	JEF-2.2	5058	0.3304-01	0.2927-01	2.524	0.2381-02	0.3901-01
		ENDF/B-VI	5058	0.3322-01	0.2938-01	2.530	0.2384-02	0.3902-01
		JENDL-3.2	5058	3.002	2.661	62.44	0.1002-02	0.6025-01
	n,p	JEF-2.2	5058				0.1728-02	0.3004-05
		JENDL-3.2	5058				0.1570-02	0.7568-06
	n,d	JEF-2.2	5058				0.3125-03	0.2362-06
		JENDL-3.2	5058				0.3340-07	0.3058-07

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
50-Sn-123	n,t	JEF-2.2	5058				0.6864-04	0.5918-07
		JENDL-3.2	5058				0.2584-09	0.3965-08
	n,He3	JEF-2.2	5058				0.5786-06	0.3511-09
	n,a	JEF-2.2	5058	0.2900-14	0.5731-14	0.1119-07	0.2640-03	0.7303-06
JENDL-3.2		5058				0.4865-04	0.3473-07	
50-Sn-124	Total	JEF-2.2	5061	4.590	4.578	68.64	4.664	5.608
		JENDL-3.2	5061	4.553	4.538	67.94	4.635	5.533
	Elast.	JEF-2.2	5061	4.464	4.463	61.57	3.152	5.103
		JENDL-3.2	5061	4.418	4.418	60.12	2.929	4.785
	Incl.	JEF-2.2	5061				1.508	0.4848
		JENDL-3.2	5061				0.1920	0.7364
	n,2n	JENDL-3.2	5061				1.515	0.3471-02
	n,3n	JENDL-3.2	5061					0.1376-04
	n,g	JEF-2.2	5061	0.1301	0.1153	7.059	0.1855-02	0.1728-01
		ENDF/B-VI	5061	0.1304	0.1156	7.062	0.1854-02	0.1730-01
		JENDL-3.2	5061	0.1355	0.1200	7.821	0.1000-02	0.6335-02
	n,p	JEF-2.2	5061				0.1143-02	0.1346-05
		JENDL-3.2	5061				0.9517-03	0.5375-06
	n,d	JEF-2.2	5061				0.5326-03	0.3932-06
		JENDL-3.2	5061				0.5544-13	0.4217-08
	n,t	JEF-2.2	5061				0.6859-05	0.4250-08
JENDL-3.2		5061				0.1093-17	0.1044-08	
n,He3	JEF-2.2	5061				0.3315-06	0.1249-09	
n,a	JEF-2.2	5061				0.1797-03	0.4356-06	
	JENDL-3.2	5061				0.4269-05	0.8002-08	
50-Sn-125	Total	JEF-2.2	5064	5.148	5.094	87.15	4.665	5.612
		ENDF/B-VI	5064	5.205	5.356	89.24	4.665	5.623
	Elast.	JEF-2.2	5064	4.592	4.592	72.15	3.727	5.072
		ENDF/B-VI	5064	4.597	4.604	72.25	3.729	5.073
	Incl.	JEF-2.2	5064			0.6000-03	0.9345	0.5273
		ENDF/B-VI	5064			0.6000-03	0.9345	0.5273
	n,g	JEF-2.2	5064	0.5506	0.4879	14.80	0.2267-02	0.1111-01
		ENDF/B-VI	5064	0.5536	0.4897	14.84	0.2269-02	0.1113-01
	n,p	JEF-2.2	5064				0.8636-03	0.1274-05
	n,d	JEF-2.2	5064				0.4557-03	0.3225-06

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
50-Sn-125	n,t	JEF-2.2	5064				0.5251-04	0.4303-07
	n,He3	JEF-2.2	5064				0.2738-06	0.9720-10
	n,a	JEF-2.2	5064	0.2028-14	0.4008-14	0.7827-08	0.1271-03	0.4539-06
50-Sn-126	Total	JEF-2.2	5067	4.923	4.911	59.61	4.666	5.618
		ENDF/B-VI	5067	4.977	5.079	60.77	4.666	5.633
		JENDL-3.2	5067	4.110	4.117	63.70	4.633	5.536
	Elast.	JEF-2.2	5067	4.618	4.616	59.40	3.156	5.140
		ENDF/B-VI	5067	4.621	4.628	59.44	3.157	5.143
		JENDL-3.2	5067	4.018	4.017	63.32	2.927	4.800
	Inel.	JEF-2.2	5067				1.507	0.4708
		ENDF/B-VI	5067				1.507	0.4708
		JENDL-3.2	5067				0.1787	0.7261
	n,2n	JENDL-3.2	5067				1.528	0.4467-02
	n,3n	JENDL-3.2	5067					0.2222-04
	n,g	JEF-2.2	5067	0.3004	0.2661	0.1596	0.1807-02	0.5621-02
		ENDF/B-VI	5067	0.3012	0.2669	0.1600	0.1807-02	0.5624-02
		JENDL-3.2	5067	0.9007-01	0.7981-01	0.1296	0.1000-02	0.4412-02
	n,p	JEF-2.2	5067				0.5800-03	0.6601-06
		JENDL-3.2	5067				0.4682-04	0.4470-07
	n,d	JEF-2.2	5067				0.3904-03	0.2620-06
		JENDL-3.2	5067				0.3398-16	0.1623-08
	n,t	JEF-2.2	5067				0.5189-05	0.3168-08
		JENDL-3.2	5067				0.6784-19	0.6669-09
	n,He3	JEF-2.2	5067				0.2140-07	0.3306-10
n,a	JEF-2.2	5067				0.8180-04	0.3076-06	
	JENDL-3.2	5067				0.1471-06	0.1401-08	
51-Sb- 0	Total	JENDL-3.2	5100	8.962	8.379	255.0	4.637	5.769
		CENDL-2	2510	9.182	8.572	252.7	4.704	5.888
	Elast.	JENDL-3.2	5100	3.737	3.736	80.33	2.356	4.407
		CENDL-2	2510	3.743	3.742	80.05	2.755	4.472
	Inel.	JENDL-3.2	5100				0.6105	1.284
		CENDL-2	2510				0.4179	1.330
	n,2n	JENDL-3.2	5100				1.658	0.1804-02
		CENDL-2	2510				1.503	0.1637-02
	n,3n	JENDL-3.2	5100					0.1025-05
		CENDL-2	2510					0.1242-05

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
51-Sb- 0	n,g	JENDL-3.2	5100	5.224	4.640	174.5	0.1005-02	0.7399-01
		CENDL-2	2510	5.439	4.830	172.5	0.1000-05	0.8297-01
	n,p	JENDL-3.2	5100				0.7851-02	0.2799-04
		CENDL-2	2510				0.1639-01	0.2424-03
	n,d	JENDL-3.2	5100				0.1919-02	0.1335-05
		CENDL-2	2510				0.2533-02	0.2127-05
n,t	JENDL-3.2	5100				0.2753-04	0.4545-07	
	CENDL-2	2510				0.6251-06	0.5434-09	
n,He3	CENDL-2	2510					0.3938-14	
n,a	JENDL-3.2	5100				0.1981-02	0.1851-05	
	CENDL-2	2510				0.1496-03	0.4018-06	
51-Sb-121	Total	JEF-2.2	5125	9.701	9.040	276.0	4.656	5.587
		ENDF/B-VI	5125	9.985	9.303	274.9	4.656	5.586
		JENDL-3.2	5125	9.601	8.938	282.3	4.710	5.776
	Elast.	JEF-2.2	5125	3.782	3.779	69.53	3.112	4.272
		ENDF/B-VI	5125	3.729	3.723	68.97	3.124	4.267
		JENDL-3.2	5125	3.605	3.604	68.46	2.375	4.339
	Inel.	JEF-2.2	5125			0.1966	1.530	1.206
		ENDF/B-VI	5125			0.1966	1.530	1.206
		JENDL-3.2	5125			0.2383	0.6969	1.352
	n,2n	JENDL-3.2	5125				1.621	0.1459-02
	n,3n	JENDL-3.2	5125					0.6421-06
	n,g	JEF-2.2	5125	5.920	5.262	206.3	0.1992-02	0.1057
		ENDF/B-VI	5125	6.297	5.587	205.6	0.1991-02	0.1058
		JENDL-3.2	5125	5.995	5.331	213.6	0.1004-02	0.8315-01
	n,p	JEF-2.2	5125			0.3056-06	0.9578-02	0.9236-04
		JENDL-3.2	5125				0.9112-02	0.3914-04
	n,d	JEF-2.2	5125				0.1378-02	0.2375-05
		JENDL-3.2	5125				0.2373-02	0.1755-05
	n,t	JEF-2.2	5125				0.1156-03	0.1241-06
		JENDL-3.2	5125				0.3785-04	0.5124-07
	n,He3	JEF-2.2	5125				0.2093-05	0.2422-08
	n,a	JEF-2.2	5125	0.2337-13	0.4618-13	0.9013-07	0.1895-02	0.5594-05
		JENDL-3.2	5125				0.2520-02	0.2668-05
	51-Sb-123	Total	JEF-2.2	5131	8.127	7.636	221.5	4.662
ENDF/B-VI			5131	8.118	7.642	221.6	4.662	5.599
JENDL-3.2			5131	8.104	7.629	218.3	4.744	5.793

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
51-Sb-123	Elast.	JEF-2.2	5131	3.797	3.795	94.18	3.129	4.587
		ENDF/B-VI	5131	3.796	3.788	94.17	3.137	4.575
		JENDL-3.2	5131	3.915	3.914	96.26	2.530	4.535
	Inel.	JEF-2.2	5131				1.524	0.9577
		ENDF/B-VI	5131				1.524	0.9577
		JENDL-3.2	5131				0.4946	1.193
	n,2n	JENDL-3.2	5131				1.709	0.2268-02
	n,3n	JENDL-3.2	5131					0.1539-05
	n,g	JEF-2.2	5131	4.331	3.841	127.3	0.1726-02	0.4792-01
		ENDF/B-VI	5131	4.341	3.855	127.3	0.1725-02	0.4800-01
		JENDL-3.2	5131	4.189	3.713	122.1	0.1005-02	0.6170-01
	n,p	JEF-2.2	5131				0.4623-02	0.3382-04
		JENDL-3.2	5131				0.6175-02	0.1302-04
	n,d	JEF-2.2	5131				0.9427-03	0.1605-05
		JENDL-3.2	5131				0.1310-02	0.7715-06
	n,t	JEF-2.2	5131				0.8697-04	0.8974-07
		JENDL-3.2	5131				0.1369-04	0.3765-07
	n,He3	JEF-2.2	5131				0.2548-05	0.2057-08
	n,a	JEF-2.2	5131	0.1842-13	0.3640-13	0.7107-07	0.2032-02	0.4923-05
		JENDL-3.2	5131				0.1259-02	0.7550-06
51-Sb-124	Total	JEF-2.2	5134	11.10	10.37	87.67	4.664	5.607
		ENDF/B-VI	5134	11.29	11.37	90.50	4.664	5.610
		JENDL-3.2	5134	21.22	19.29	213.7	4.635	5.531
	Elast.	JEF-2.2	5134	4.577	4.591	61.36	3.118	3.878
		ENDF/B-VI	5134	4.586	4.580	61.39	3.123	3.879
		JENDL-3.2	5134	3.777	3.776	58.36	2.932	3.818
	Inel.	JEF-2.2	5134			0.3558	1.539	1.665
		ENDF/B-VI	5134			0.3558	1.539	1.665
		JENDL-3.2	5134			0.2492	0.1584	1.611
	n,2n	JENDL-3.2	5134				1.540	0.1246-01
	n,3n	JENDL-3.2	5134					0.5651-05
	n,g	JEF-2.2	5134	6.508	5.766	25.92	0.2500-02	0.5982-01
		ENDF/B-VI	5134	6.526	5.784	25.99	0.2503-02	0.5997-01
		JENDL-3.2	5134	17.41	15.43	155.0	0.1001-02	0.8320-01
	n,p	JEF-2.2	5134			0.2094-06	0.3685-02	0.5989-04
		JENDL-3.2	5134				0.3182-02	0.5451-05
	n,d	JEF-2.2	5134				0.8414-03	0.1145-05
		JENDL-3.2	5134				0.8040-03	0.3745-06

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
51-Sb-124	n,t	JEF-2.2	5134				0.9667-05	0.1220-07
		JENDL-3.2	5134				0.6763-04	0.6036-07
	n,a	JEF-2.2	5134	0.2073-13	0.4096-13	0.7998-07	0.1649-02	0.4993-05
		JENDL-3.2	5134				0.1498-02	0.8832-06
51-Sb-125	Total	JEF-2.2	5137	5.603	5.497	99.81	4.665	5.629
		ENDF/B-VI	5137	5.673	5.861	101.2	4.665	5.625
		JENDL-3.2	5137	9.043	8.486	123.7	4.636	5.534
	Elast.	JEF-2.2	5137	4.591	4.592	81.62	3.147	4.624
		ENDF/B-VI	5137	4.597	4.604	81.69	3.151	4.617
		JENDL-3.2	5137	4.017	4.017	68.38	2.929	4.433
	Incl.	JEF-2.2	5137				1.513	0.9240
		ENDF/B-VI	5137				1.513	0.9240
		JENDL-3.2	5137				0.2419	0.9768
	n,2n	JENDL-3.2	5137				1.462	0.2608-02
	n,3n	JENDL-3.2	5137					0.8146-05
	n,g	JEF-2.2	5137	1.001	0.8871	18.01	0.2021-02	0.7798-01
		ENDF/B-VI	5137	1.006	0.8900	18.06	0.2012-02	0.7807-01
		JENDL-3.2	5137	5.004	4.434	55.28	0.1003-02	0.1205
	n,p	JEF-2.2	5137				0.2479-02	0.1114-04
		JENDL-3.2	5137				0.2213-02	0.1584-05
	n,d	JEF-2.2	5137				0.6436-03	0.1077-05
		JENDL-3.2	5137				0.1806-03	0.1696-06
	n,t	JEF-2.2	5137				0.6609-04	0.6542-07
		JENDL-3.2	5137				0.3533-05	0.2130-07
n,He3	JEF-2.2	5137				0.4020-06	0.1730-09	
n,a	JEF-2.2	5137	0.8770-14	0.1733-13	0.3385-07	0.5808-03	0.1663-05	
	JENDL-3.2	5137				0.1019-02	0.5072-06	
51-Sb-126	Total	JEF-2.2	5140	10.45	9.807	129.7	4.666	5.624
		ENDF/B-VI	5140	10.63	10.82	135.1	4.666	5.634
Elast.	JEF-2.2	5140	4.628	4.646	83.90	3.231	4.570	
	ENDF/B-VI	5140	4.621	4.628	83.91	3.234	4.567	
Incl.	JEF-2.2	5140			0.1117	1.430	1.012	
	ENDF/B-VI	5140			0.1117	1.430	1.012	
n,g	JEF-2.2	5140	5.807	5.145	45.43	0.2369-02	0.3797-01	
	ENDF/B-VI	5140	5.824	5.160	45.55	0.2372-02	0.3806-01	
n,p	JEF-2.2	5140			0.6141-07	0.1920-02	0.1896-04	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
51-Sb-126	n,d	JEF-2.2	5140				0.6004-03	0.7407-06
	n,t	JEF-2.2	5140				0.7187-05	0.8560-08
	n,He3	JEF-2.2	5140				0.2971-06	0.1121-09
	n,a	JEF-2.2	5140	0.8611-14	0.1702-13	0.3324-07	0.9061-03	0.2244-05
52-Te-120	Total	JEF-2.2	5225	7.200	7.294	113.2	7.501	6.377
		ENDF/B-VI	5225	11.42	18.48	127.6	7.538	6.380
		JENDL-3.2	5225	6.014	5.759	142.6	4.976	5.886
	Elast.	JEF-2.2	5225	4.896	5.233	93.68	5.700	5.072
		ENDF/B-VI	5225	4.840	4.833	99.64	5.763	5.081
		JENDL-3.2	5225	3.657	3.656	120.6	3.449	4.800
	Inel.	JEF-2.2	5225				1.760	1.159
		ENDF/B-VI	5225				1.760	1.159
		JENDL-3.2	5225				0.3723	0.9805
	n,2n	JENDL-3.2	5225				1.090	0.5916-03
	n,3n	JENDL-3.2	5225					0.2561-06
	n,g	JEF-2.2	5225	2.289	2.028	19.34	0.1400-02	0.1411
		ENDF/B-VI	5225	6.580	13.66	27.92	0.1400-02	0.1422
		JENDL-3.2	5225	2.342	2.075	21.98	0.1054-02	0.1018
	n,p	JEF-2.2	5225				0.2582-01	0.1353-03
		JENDL-3.2	5225				0.2646-01	0.2217-03
	n,d	JEF-2.2	5225				0.2357-02	0.2711-05
		JENDL-3.2	5225				0.1148-02	0.6147-06
	n,t	JEF-2.2	5225				0.2789-04	0.2572-07
		JENDL-3.2	5225				0.5147-05	0.2917-07
	n,He3	JEF-2.2	5225				0.2301-05	0.3747-08
JENDL-3.2		5225				0.2448-09	0.2996-09	
n,a	JEF-2.2	5225			0.2749-06	0.1179-01	0.8880-04	
	JENDL-3.2	5225				0.1212-01	0.7055-03	
52-Te-122	Total	JEF-2.2	5231	5.875	5.557	188.3	4.660	5.587
		ENDF/B-VI	5231	5.770	5.464	187.8	4.660	5.590
		JENDL-3.2	5231	5.993	5.610	199.4	4.976	5.882
	Elast.	JEF-2.2	5231	3.073	3.072	114.7	3.168	4.624
		ENDF/B-VI	5231	2.977	2.973	114.2	3.188	4.615
		JENDL-3.2	5231	2.615	2.615	119.7	3.454	4.799
	Inel.	JEF-2.2	5231				1.469	0.8357
		ENDF/B-VI	5231				1.469	0.8357
		JENDL-3.2	5231				0.2531	0.9732

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
52-Te-122	n,2n	JENDL-3.2	5231				1.249	0.9445-03
	n,3n	JENDL-3.2	5231					0.1071-05
	n,g	JEF-2.2	5231	2.803	2.485	73.53	0.2265-02	0.1229
		ENDF/B-VI	5231	2.812	2.493	73.56	0.2264-02	0.1231
		JENDL-3.2	5231	3.377	2.994	79.69	0.1115-02	0.1030
	n,p	JEF-2.2	5231				0.1325-01	0.4496-04
		JENDL-3.2	5231				0.9513-02	0.1771-04
	n,d	JEF-2.2	5231				0.1652-02	0.1797-05
		JENDL-3.2	5231				0.2733-03	0.2130-06
	n,t	JEF-2.2	5231				0.2039-04	0.1794-07
		JENDL-3.2	5231				0.6679-06	0.1625-07
	n,He3	JEF-2.2	5231				0.2225-05	0.3316-08
		JENDL-3.2	5231				0.1615-11	0.2404-10
n,a	JEF-2.2	5231			0.1140-06	0.6138-02	0.3191-04	
	JENDL-3.2	5231				0.6164-02	0.5641-04	
52-Te-123	Total	JEF-2.2	5234	410.9	368.4	6197.	4.662	5.597
		ENDF/B-VI	5234	410.6	369.0	6199.	4.662	5.601
		JENDL-3.2	5234	419.0	375.7	6323.	4.976	5.880
	Elast.	JEF-2.2	5234	0.6001	0.6184	654.0	3.125	4.207
		ENDF/B-VI	5234	-0.2192	-0.2091	652.4	3.142	4.203
		JENDL-3.2	5234	0.5922	0.6159	675.3	3.453	4.312
	Inel.	JEF-2.2	5234				1.518	1.297
		ENDF/B-VI	5234				1.518	1.297
		JENDL-3.2	5234				0.1917	1.442
	n,2n	JENDL-3.2	5234				1.315	0.7478-02
	n,3n	JENDL-3.2	5234					0.1255-05
	n,g	JEF-2.2	5234	410.3	367.8	5543.	0.2763-02	0.8681-01
		ENDF/B-VI	5234	412.3	369.3	5547.	0.2766-02	0.8699-01
		JENDL-3.2	5234	418.4	375.1	5647.	0.1002-02	0.1183
	n,p	JEF-2.2	5234			0.2893-06	0.1066-01	0.9255-04
		JENDL-3.2	5234				0.9255-02	0.2007-04
	n,d	JEF-2.2	5234				0.1365-02	0.1746-05
		JENDL-3.2	5234				0.1072-02	0.5368-06
	n,t	JEF-2.2	5234				0.1215-03	0.1275-06
		JENDL-3.2	5234				0.2283-04	0.4097-07
	n,He3	JEF-2.2	5234				0.2189-05	0.3253-08
JENDL-3.2		5234				0.1219-12	0.4747-10	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
52-Te-123	n,a	JEF-2.2	5234			0.3456-06	0.5116-02	0.7829-04
		JENDL-3.2	5234	0.4647-04	0.4160-04	0.6469-03	0.4451-02	0.1013-03
52-Te-124	Total	JEF-2.2	5237	10.69	9.908	78.22	4.664	5.609
		ENDF/B-VI	5237	10.65	9.887	78.13	4.664	5.608
		JENDL-3.2	5237	10.46	9.674	73.98	4.975	5.886
	Elast.	JEF-2.2	5237	3.861	3.860	70.23	3.239	4.652
		ENDF/B-VI	5237	3.834	3.842	70.13	3.251	4.644
		JENDL-3.2	5237	3.668	3.667	68.60	3.450	4.814
	Inel.	JEF-2.2	5237				1.411	0.8441
		ENDF/B-VI	5237				1.411	0.8441
		JENDL-3.2	5237				0.1759	1.016
	n,2n	JENDL-3.2	5237				1.337	0.1392-02
	n,3n	JENDL-3.2	5237					0.2863-05
	n,g	JEF-2.2	5237	6.808	6.032	7.924	0.2163-02	0.1099
		ENDF/B-VI	5237	6.827	6.050	7.964	0.2162-02	0.1100
		JENDL-3.2	5237	6.787	6.004	5.370	0.1035-02	0.5203-01
	n,p	JEF-2.2	5237				0.7700-02	0.2135-04
		JENDL-3.2	5237				0.7568-02	0.7186-05
	n,d	JEF-2.2	5237				0.1178-02	0.1199-05
		JENDL-3.2	5237				0.4844-04	0.7564-07
	n,t	JEF-2.2	5237				0.1507-04	0.1267-07
		JENDL-3.2	5237				0.2615-07	0.9751-08
	n,He3	JEF-2.2	5237				0.2154-05	0.2972-08
n,a	JEF-2.2	5237			0.4342-07	0.3287-02	0.1310-04	
	JENDL-3.2	5237				0.3173-02	0.6629-05	
52-Te-125	Total	JEF-2.2	5240	5.553	5.375	101.5	4.665	5.621
		ENDF/B-VI	5240	5.533	5.368	101.5	4.665	5.622
		JENDL-3.2	5240	4.955	4.782	94.92	4.976	5.878
	Elast.	JEF-2.2	5240	4.001	4.000	78.21	3.164	4.193
		ENDF/B-VI	5240	3.985	3.991	77.69	3.173	4.193
		JENDL-3.2	5240	3.434	3.434	72.98	3.457	4.335
	Inel.	JEF-2.2	5240			0.2878	1.490	1.380
		ENDF/B-VI	5240			0.2878	1.490	1.380
		JENDL-3.2	5240			0.3224	0.1820	1.477
	n,2n	JENDL-3.2	5240				1.328	0.1120-01
	n,3n	JENDL-3.2	5240					0.2583-05

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
52-Te-125	n,g	JEF-2.2	5240	1.552	1.375	22.90	0.2651-02	0.4300-01
		ENDF/B-VI	5240	1.554	1.380	23.38	0.2653-02	0.4309-01
		JENDL-3.2	5240	1.521	1.347	21.61	0.1000-02	0.5356-01
	n,p	JEF-2.2	5240			0.9897-07	0.5580-02	0.3361-04
		JENDL-3.2	5240				0.4846-02	0.5908-05
	n,d	JEF-2.2	5240				0.9691-03	0.1190-05
		JENDL-3.2	5240				0.5470-03	0.3212-06
	n,t	JEF-2.2	5240				0.9194-04	0.9574-07
		JENDL-3.2	5240				0.7672-05	0.2556-07
	n,He3	JEF-2.2	5240				0.2120-05	0.2685-08
	n,a	JEF-2.2	5240			0.8391-07	0.2814-02	0.2317-04
		JENDL-3.2	5240				0.2392-02	0.6823-05
52-Te-126	Total	JEF-2.2	5243	5.170	5.054	90.73	4.666	5.634
		ENDF/B-VI	5243	5.178	5.062	90.78	4.666	5.635
		JENDL-3.2	5243	4.587	4.470	81.82	4.974	5.879
	Elast.	JEF-2.2	5243	4.137	4.136	80.52	3.168	4.719
		ENDF/B-VI	5243	4.146	4.143	80.52	3.174	4.709
		JENDL-3.2	5243	3.551	3.551	73.82	3.453	4.905
	Inel.	JEF-2.2	5243				1.491	0.8722
		ENDF/B-VI	5243				1.491	0.8722
		JENDL-3.2	5243				0.1376	0.9403
	n,2n	JENDL-3.2	5243				1.380	0.1823-02
	n,3n	JENDL-3.2	5243					0.5895-05
	n,g	JEF-2.2	5243	1.036	0.9182	10.19	0.2074-02	0.3941-01
		ENDF/B-VI	5243	1.038	0.9209	10.20	0.2074-02	0.3944-01
		JENDL-3.2	5243	1.035	0.9169	8.001	0.1017-02	0.3170-01
	n,p	JEF-2.2	5243				0.2837-02	0.6337-05
		JENDL-3.2	5243				0.3974-02	0.2599-05
	n,d	JEF-2.2	5243				0.8505-03	0.8328-06
		JENDL-3.2	5243				0.3765-04	0.7408-07
	n,t	JEF-2.2	5243				0.1126-04	0.9379-08
		JENDL-3.2	5243				0.2015-08	0.6920-08
	n,He3	JEF-2.2	5243				0.2029-05	0.2767-08
n,a	JEF-2.2	5243	0.3217-13	0.6358-13	0.1242-06	0.1349-02	0.5959-05	
	JENDL-3.2	5243				0.1786-02	0.1949-05	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
52-Te-127m	Total	JEF-2.2	5246	14.08	13.03	137.5	4.667	5.636	
		ENDF/B-VI	5247	14.06	13.02	137.6	4.652	5.631	
		JENDL-3.2	5247	3386.	3003.	1454.	4.974	5.882	
	Elast.	JEF-2.2	5246	4.643	4.641	94.85	3.151	4.747	
		ENDF/B-VI	5247	4.643	4.654	95.25	3.134	4.752	
		JENDL-3.2	5247	3.646	3.645	114.3	3.457	4.593	
	Incl.	JEF-2.2	5246				1.515	0.8127	
		ENDF/B-VI	5247				1.515	0.8127	
		JENDL-3.2	5247			0.1112-01	0.1751	1.126	
	n,2n	JENDL-3.2	5247				1.339	0.1239-01	
	n,3n	JENDL-3.2	5247					0.5583-05	
	n,g	JEF-2.2	5246	9.411	8.339	42.16	0.2519-02	0.6611-01	
		ENDF/B-VI	5247	9.414	8.362	42.35	0.2525-02	0.6640-01	
		JENDL-3.2	5247	3382.	2998.	1337.	0.1000-02	0.1488	
	n,p	JENDL-3.2	5247				0.2516-02	0.2095-05	
	n,d	JENDL-3.2	5247				0.2596-03	0.1910-06	
	n,t	JENDL-3.2	5247				0.1126-04	0.2981-07	
	n,a	JENDL-3.2	5247				0.1335-02	0.1336-05	
	52-Te-128	Total	JEF-2.2	5249	4.090	4.065	55.30	4.825	5.884
			ENDF/B-VI	5249	4.791	4.768	66.91	4.668	5.666
JENDL-3.2			5249	4.329	4.306	56.86	4.975	5.876	
Elast.		JEF-2.2	5249	3.875	3.874	53.59	2.869	4.915	
		ENDF/B-VI	5249	4.566	4.575	64.73	3.171	4.796	
		JENDL-3.2	5249	4.115	4.115	55.63	3.455	4.942	
Incl.		JEF-2.2	5249				1.952	0.9601	
		ENDF/B-VI	5249				1.495	0.8042	
		JENDL-3.2	5249				0.1270	0.9149	
n,2n		JENDL-3.2	5249				1.391	0.2334-02	
n,3n		JENDL-3.2	5249					0.1073-04	
n,g		JEF-2.2	5249	0.2152	0.1907	1.706	0.7794-05	0.9286-02	
		ENDF/B-VI	5249	0.2151	0.1911	2.211	0.2005-02	0.4664-01	
		JENDL-3.2	5249	0.2141	0.1898	1.237	0.1002-02	0.1475-01	
n,p		JEF-2.2	5249				0.1840-02	0.3497-05	
		JENDL-3.2	5249				0.1842-02	0.1021-05	
n,d		JEF-2.2	5249				0.6208-03	0.5759-06	
		JENDL-3.2	5249				0.6250-05	0.4143-07	
n,t		JEF-2.2	5249				0.8495-05	0.6782-08	
		JENDL-3.2	5249				0.5635-09	0.6001-08	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
52-Te-128	n,He3	JEF-2.2	5249				0.2514-05	0.2388-08
		JENDL-3.2	5249				0.7878-03	0.3145-05
	n,a	JEF-2.2	5249	0.1543-13	0.3050-13	0.5958-07	0.6836-03	0.3866-06
52-Te-129m	Total	JEF-2.2	5252	5.800	5.686	96.07	4.668	5.662
		ENDF/B-VI	5253	5.820	5.681	96.14	4.653	5.662
		JENDL-3.2	5253	1605.	1425.	882.3	4.974	5.882
	Elast.	JEF-2.2	5252	4.686	4.689	89.80	3.140	4.714
		ENDF/B-VI	5253	4.719	4.703	90.14	3.127	4.716
		JENDL-3.2	5253	3.414	3.414	123.9	3.457	4.723
	Inel.	JEF-2.2	5252				1.523	0.9322
		ENDF/B-VI	5253				1.523	0.9322
		JENDL-3.2	5253			0.1675-01	0.1386	0.9722
	n,2n	JENDL-3.2	5253				1.378	0.1709-01
	n,3n	JENDL-3.2	5253					0.9077-05
	n,g	JEF-2.2	5252	1.101	0.9758	5.973	0.2426-02	0.1339-01
		ENDF/B-VI	5253	1.102	0.9786	6.004	0.2432-02	0.1345-01
		JENDL-3.2	5253	1601.	1419.	753.6	0.1000-02	0.1662
	n,p	JEF-2.2	5252				0.1511-02	0.4861-05
		JENDL-3.2	5253				0.1324-02	0.8967-06
	n,d	JEF-2.2	5252				0.4968-03	0.6270-06
		JENDL-3.2	5253				0.1059-03	0.1014-06
	n,t	JEF-2.2	5252				0.5404-04	0.5359-07
		JENDL-3.2	5253				0.3578-05	0.2088-07
	n,He3	JEF-2.2	5252				0.6306-06	0.4548-09
n,a	JEF-2.2	5252				0.8755-03	0.4021-05	
	JENDL-3.2	5253			0.1279-07	0.7334-03	0.4485-06	
52-Te-130	Total	JEF-2.2	5255	4.940	4.907	59.02	4.668	5.693
		ENDF/B-VI	5255	4.955	4.922	59.11	4.654	5.691
		JENDL-3.2	5255	4.121	4.091	48.72	4.977	5.873
	Elast.	JEF-2.2	5255	4.651	4.650	58.68	3.160	4.935
		ENDF/B-VI	5255	4.652	4.660	58.84	3.161	4.920
		JENDL-3.2	5255	3.851	3.851	48.47	3.455	5.008
	Inel.	JEF-2.2	5255				1.505	0.7515
		ENDF/B-VI	5255				1.505	0.7515
		JENDL-3.2	5255				0.1378	0.8532
	n,2n	JENDL-3.2	5255				1.380	0.3181-02
	n,3n	JENDL-3.2	5255					0.1616-04

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
52-Te-130	n,g	JEF-2.2	5255	0.2903	0.2573	0.3363	0.1947-02	0.4476-02	
		ENDF/B-VI	5255	0.2912	0.2580	0.3304	0.1947-02	0.4481-02	
		JENDL-3.2	5255	0.2701	0.2393	0.2574	0.1000-02	0.5560-02	
	n,p	JEF-2.2	5255				0.1524-02	0.2433-05	
		JENDL-3.2	5255				0.1315-02	0.6528-06	
	n,d	JEF-2.2	5255				0.4579-03	0.4058-06	
		JENDL-3.2	5255				0.1941-05	0.3525-07	
	n,t	JEF-2.2	5255				0.6471-05	0.5153-08	
		JENDL-3.2	5255				0.5172-09	0.5754-08	
	n,He3	JEF-2.2	5255				0.5263-06	0.3113-09	
	n,a	JEF-2.2	5255	0.1016-13	0.2010-13	0.3926-07	0.4610-03	0.1813-05	
		JENDL-3.2	5255				0.1648-03	0.8603-07	
	52-Te-132	Total	JEF-2.2	5261	4.764	4.765	57.92	4.668	5.708
			ENDF/B-VI	5261	4.772	4.782	57.89	4.656	5.705
Elast.		JEF-2.2	5261	4.762	4.761	57.87	3.208	4.975	
		ENDF/B-VI	5261	4.763	4.772	58.12	3.208	4.962	
Incl.		JEF-2.2	5261				1.457	0.7315	
		ENDF/B-VI	5261				1.457	0.7315	
n,g		JEF-2.2	5261	0.2002-02	0.1774-02	0.8986-03	0.1897-02	0.6356-03	
		ENDF/B-VI	5261	0.2008-02	0.1779-02	0.9011-03	0.1897-02	0.6363-03	
n,p		JEF-2.2	5261				0.5089-03	0.7000-06	
n,d		JEF-2.2	5261				0.3410-03	0.2935-06	
n,t		JEF-2.2	5261				0.4972-05	0.3924-08	
n,He3		JEF-2.2	5261				0.3015-06	0.1290-09	
n,a		JEF-2.2	5261	0.6975-14	0.1379-13	0.2695-07	0.3608-03	0.1206-05	
53-I-127		Total	JEF-2.2	5325	9.768	9.056	286.9	4.922	5.883
	ENDF/B-VI		5325	11.04	10.35	364.9	4.764	5.901	
	JENDL-3.2		5325	9.758	9.054	280.5	4.977	5.879	
	Elast.	JEF-2.2	5325	3.569	3.566	143.1	2.897	4.272	
		ENDF/B-VI	5325	4.775	4.784	207.6	2.766	4.145	
		JENDL-3.2	5325	3.554	3.553	132.7	3.050	4.365	
	Incl.	JEF-2.2	5325			0.8841-01	0.3323-01	1.530	
		ENDF/B-VI	5325			0.1275	0.5513	1.679	
		JENDL-3.2	5325			0.8621-01	0.1176	1.438	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
53-I -127	n,2n	JEF-2.2	5325				1.971	0.2906-02
		ENDF/B-VI	5325				1.426	0.1745-02
		JENDL-3.2	5325				1.787	0.2319-02
	n,3n	ENDF/B-VI	5325					0.9833-06
		JENDL-3.2	5325					0.2537-05
	n,g	JEF-2.2	5325	6.199	5.490	143.7	0.1434-02	0.7944-01
		ENDF/B-VI	5325	6.265	5.567	157.1	0.1006-02	0.7501-01
		JENDL-3.2	5325	6.203	5.498	147.7	0.1002-02	0.7224-01
	n,p	JEF-2.2	5325				0.1609-01	0.1217-03
		ENDF/B-VI	5325	0.1401-07	0.1401-07	0.1713-06	0.1567-01	0.5693-04
		JENDL-3.2	5325				0.1445-01	0.2313-04
	n,d	JEF-2.2	5325				0.1380-02	0.3495-05
		JENDL-3.2	5325				0.8122-03	0.4352-06
	n,t	JEF-2.2	5325				0.2278-04	0.2206-07
		JENDL-3.2	5325				0.1536-04	0.4368-07
	n,He3	JEF-2.2	5325				0.2708-05	0.2589-08
		JENDL-3.2	5325				0.1703-14	0.1371-10
	n,a	JEF-2.2	5325				0.1784-02	0.7892-05
		ENDF/B-VI	5325	0.1647-07	0.1647-07	0.2011-06	0.1267-02	0.2589-05
		JENDL-3.2	5325				0.1279-02	0.1428-05
	53-I -129	Total	JEF-2.2	5331	42.50	38.55	112.2	4.983
ENDF/B-VI			5331	31.63	28.60	121.9	4.668	5.690
JENDL-3.2			5331	33.51	30.38	94.84	4.977	5.874
BROND-2			5329	33.94	30.81	107.1	4.838	5.849
Elast.		JEF-2.2	5331	8.575	8.561	81.74	2.917	4.370
		ENDF/B-VI	5331	4.565	4.573	86.09	3.159	4.402
		JENDL-3.2	5331	6.496	6.486	65.58	3.291	4.492
		BROND-2	5329	7.015	7.005	78.79	2.861	4.326
Inel.		JEF-2.2	5331			0.2323	0.3013	1.469
		ENDF/B-VI	5331			0.2402	1.506	1.235
		JENDL-3.2	5331			0.2708	0.2133	1.313
		BROND-2	5329			0.3084	1.973	1.453
n,2n		JEF-2.2	5331				1.753	0.2760-02
		JENDL-3.2	5331				1.464	0.2480-02
n,3n		JEF-2.2	5331					0.3815-05
		JENDL-3.2	5331					0.4239-05
n,g		JEF-2.2	5331	33.93	29.99	30.28	0.1011-02	0.5497-01
		ENDF/B-VI	5331	27.17	24.04	35.56	0.1741-02	0.5054-01
		JENDL-3.2	5331	27.01	23.88	28.98	0.1001-02	0.6421-01
		BROND-2	5329	26.93	23.80	27.97	0.1093-02	0.6782-01
n,p		JEF-2.2	5331				0.1359-01	0.1851-04
	JENDL-3.2	5331				0.3116-02	0.3186-05	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
53-I -129	n,d	JENDL-3.2	5331				0.3699-03	0.2950-06
	n,t	JENDL-3.2	5331				0.8229-05	0.4117-07
	n,a	JEF-2.2 JENDL-3.2	5331 5331				0.1200-02 0.1497-02	0.7794-06 0.1175-05
53-I -130	Total	JEF-2.2	5334	22.76	20.74	300.3	4.668	5.697
		ENDF/B-VI	5334	23.11	22.69	310.6	4.654	5.699
	Elast.	JEF-2.2	5334	4.732	4.757	119.9	3.140	4.150
		ENDF/B-VI	5334	4.715	4.724	119.6	3.144	4.149
	Inel.	JEF-2.2	5334			0.3802-01	1.521	1.508
		ENDF/B-VI	5334			0.3802-01	1.521	1.508
	n,g	JEF-2.2	5334	18.02	15.97	179.9	0.2505-02	0.3372-01
		ENDF/B-VI	5334	18.07	16.01	180.5	0.2507-02	0.3380-01
	n,p	JEF-2.2	5334			0.1120-06	0.2773-02	0.3333-04
	n,d	JEF-2.2	5334				0.6956-03	0.9438-06
	n,t	JEF-2.2	5334				0.8786-05	0.1083-07
n,He3	JEF-2.2	5334				0.2001-05	0.2771-08	
n,a	JEF-2.2	5334			0.2368-07	0.1331-02	0.6963-05	
53-I -131	Total	JEF-2.2	5337	5.445	5.373	103.3	4.666	5.718
		ENDF/B-VI	5337	5.503	5.675	104.7	4.656	5.718
		JENDL-3.2	5337	83.77	74.91	224.0	4.975	5.882
	Elast.	JEF-2.2	5337	4.734	4.737	95.14	3.155	4.551
		ENDF/B-VI	5337	4.739	4.748	95.38	3.158	4.545
		JENDL-3.2	5337	3.615	3.615	146.2	3.091	4.599
	Inel.	JEF-2.2	5337				1.508	1.149
		ENDF/B-VI	5337				1.508	1.149
		JENDL-3.2	5337				0.2114	1.244
	n,2n	JENDL-3.2	5337				1.670	0.3175-02
	n,3n	JENDL-3.2	5337					0.7218-05
	n,g	JEF-2.2	5337	0.7009	0.6210	7.895	0.2098-02	0.1324-01
		ENDF/B-VI	5337	0.7045	0.6231	7.916	0.2098-02	0.1326-01
JENDL-3.2		5337	80.06	70.95	77.61	0.1001-02	0.3219-01	
n,p	JEF-2.2	5337				0.1850-02	0.6791-05	
	JENDL-3.2	5337				0.1638-02	0.1145-05	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
53-I -131	n,d	JEF-2.2	5337	0.1875-13	0.3708-13	0.7245-07	0.5373-03	0.8952-06
		JENDL-3.2	5337				0.2119-03	0.2330-06
	n,t	JEF-2.2	5337				0.5728-04	0.5726-07
		JENDL-3.2	5337				0.4455-05	0.3964-07
n,He3	JEF-2.2	5337	0.2531-05	0.2539-08				
n,a	JEF-2.2	5337	0.9166-03	0.3756-05				
	JENDL-3.2	5337	0.8580-03	0.5361-06				
53-I -135	Total	JEF-2.2	5349	4.856	4.872	63.20	4.668	5.800
		ENDF/B-VI	5349	4.882	4.881	63.41	4.654	5.801
	Elast.	JEF-2.2	5349	4.835	4.833	63.08	3.260	5.295
		ENDF/B-VI	5349	4.835	4.843	63.31	3.256	5.297
	Inel.	JEF-2.2	5349				1.410	0.4778
		ENDF/B-VI	5349				1.410	0.4778
	n,g	JEF-2.2	5349	0.2003-01	0.1774-01	0.1199-01	0.1626-02	0.4672-03
		ENDF/B-VI	5349	0.2004-01	0.1779-01	0.1202-01	0.1626-02	0.4668-03
54-Xe-124	Total	JEF-2.2	5425	169.0	150.8	3812.	4.805	5.879
		ENDF/B-VI	5425	169.3	151.4	3815.	4.789	5.877
		JENDL-3.2	5425	266.5	248.0	4321.	4.977	5.887
	Elast.	JEF-2.2	5425	4.321	4.315	760.7	3.096	4.400
		ENDF/B-VI	5425	4.337	4.327	761.1	3.096	4.402
		JENDL-3.2	5425	101.4	101.2	1354.	3.332	4.471
	Inel.	JEF-2.2	5425				0.7574	1.372
		ENDF/B-VI	5425				0.7574	1.372
		JENDL-3.2	5425				0.6983	0.8446
	n,2n	JEF-2.2	5425				0.9360	0.5973-03
		ENDF/B-VI	5425				0.9360	0.5973-03
		JENDL-3.2	5425				0.8825	0.4113-03
	n,3n	JEF-2.2	5425					0.1017-06
		ENDF/B-VI	5425					0.1017-06
		JENDL-3.2	5425					0.1008-06
	n,g	JEF-2.2	5425	164.7	146.4	3051.	0.1326-10	0.1067
		ENDF/B-VI	5425	165.6	147.0	3053.	0.1342-10	0.1068
		JENDL-3.2	5425	165.1	146.8	2966.	0.2741-02	0.5686
	n,p	JEF-2.2	5425				0.1160-01	0.3919-04
		ENDF/B-VI	5425				0.1160-01	0.3919-04
JENDL-3.2		5425				0.3360-01	0.4642-03	
n,d	JEF-2.2	5425				0.2180-02	0.1738-05	
	ENDF/B-VI	5425				0.2180-02	0.1738-05	
	JENDL-3.2	5425				0.8346-03	0.4296-06	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
54-Xe-124	n,t	JEF-2.2	5425				0.2050-03	0.1196-06
		ENDF/B-VI	5425				0.2050-03	0.1196-06
		JENDL-3.2	5425				0.3327-05	0.1724-07
	n,He3	JEF-2.2	5425				0.1090-05	0.5334-07
		ENDF/B-VI	5425				0.1090-05	0.5334-07
		JENDL-3.2	5425				0.6049-09	0.2579-09
	n,a	JEF-2.2	5425				0.1810-02	0.3151-04
		ENDF/B-VI	5425				0.1810-02	0.3151-04
		JENDL-3.2	5425				0.1376-01	0.6354-03
54-Xe-126	Total	JEF-2.2	5431	6.530	6.281	185.6	4.848	5.901
		ENDF/B-VI	5431	6.557	6.297	185.8	4.848	5.901
		JENDL-3.2	5431	11.76	11.27	119.6	4.977	5.887
	Elast.	JEF-2.2	5431	4.332	4.330	141.8	2.843	4.511
		ENDF/B-VI	5431	4.349	4.342	141.8	2.843	4.514
		JENDL-3.2	5431	7.483	7.482	97.63	3.245	4.607
	Inel.	JEF-2.2	5431				0.5341	1.316
		ENDF/B-VI	5431				0.5341	1.316
		JENDL-3.2	5431				0.4041	0.9713
	n,2n	JEF-2.2	5431				1.465	0.1200-02
		ENDF/B-VI	5431				1.465	0.1200-02
		JENDL-3.2	5431				1.299	0.7268-03
	n,3n	JEF-2.2	5431					0.4201-06
		ENDF/B-VI	5431					0.4201-06
		JENDL-3.2	5431					0.3791-06
	n,g	JEF-2.2	5431	2.202	1.951	43.79	0.2488-10	0.7258-01
		ENDF/B-VI	5431	2.209	1.957	43.80	0.2517-10	0.7266-01
		JENDL-3.2	5431	4.272	3.785	22.00	0.1797-02	0.3068
	n,p	JEF-2.2	5431				0.4250-02	0.1063-04
		ENDF/B-VI	5431				0.4250-02	0.1063-04
		JENDL-3.2	5431				0.1720-01	0.7086-04
	n,d	JEF-2.2	5431				0.1060-02	0.7776-06
		ENDF/B-VI	5431				0.1060-02	0.7776-06
		JENDL-3.2	5431				0.2449-03	0.1866-06
	n,t	JEF-2.2	5431				0.3550-04	0.5224-07
		ENDF/B-VI	5431				0.3550-04	0.5224-07
		JENDL-3.2	5431				0.5399-06	0.1309-07
	n,He3	JEF-2.2	5431				0.9136-05	0.7273-07
		ENDF/B-VI	5431				0.9136-05	0.7273-07
		JENDL-3.2	5431				0.9565-11	0.2727-10
n,a	JEF-2.2	5431				0.1060-02	0.9721-05	
	ENDF/B-VI	5431				0.1060-02	0.9721-05	
	JENDL-3.2	5431				0.7356-02	0.7017-04	

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
54-Xe-128	Total	JEF-2.2	5437	9.684	9.060	129.2	4.888	5.933
		ENDF/B-VI	5437	9.688	9.085	129.3	4.888	5.931
		JENDL-3.2	5437	19.10	18.19	159.5	4.975	5.887
	Elast.	JEF-2.2	5437	4.320	4.318	118.2	2.655	4.540
		ENDF/B-VI	5437	4.321	4.328	118.3	2.655	4.539
		JENDL-3.2	5437	11.10	11.09	147.5	3.292	4.725
	Inel.	JEF-2.2	5437				0.4096	1.342
		ENDF/B-VI	5437				0.4096	1.342
		JENDL-3.2	5437				0.2784	1.064
	n,2n	JEF-2.2	5437				1.796	0.2147-02
		ENDF/B-VI	5437				1.796	0.2147-02
		JENDL-3.2	5437				1.376	0.1098-02
	n,3n	JEF-2.2	5437					0.2259-05
		ENDF/B-VI	5437					0.2259-05
		JENDL-3.2	5437					0.1669-05
	n,g	JEF-2.2	5437	5.365	4.743	10.97	0.1934-10	0.4928-01
		ENDF/B-VI	5437	5.381	4.759	10.98	0.1956-10	0.4930-01
		JENDL-3.2	5437	8.004	7.092	12.00	0.1050-02	0.9721-01
	n,p	JEF-2.2	5437				0.2600-01	0.5299-04
		ENDF/B-VI	5437				0.2600-01	0.5299-04
		JENDL-3.2	5437				0.2329-01	0.3714-04
n,d	JEF-2.2	5437				0.5830-03	0.4341-06	
	ENDF/B-VI	5437				0.5830-03	0.4341-06	
	JENDL-3.2	5437				0.1776-03	0.1552-06	
n,t	JEF-2.2	5437				0.2120-04	0.5835-07	
	ENDF/B-VI	5437				0.2120-04	0.5835-07	
	JENDL-3.2	5437				0.2026-06	0.1045-07	
n,He3	JEF-2.2	5437				0.5484-05	0.2279-07	
	ENDF/B-VI	5437				0.5484-05	0.2279-07	
n,a	JEF-2.2	5437				0.3100-03	0.2461-05	
	ENDF/B-VI	5437				0.3100-03	0.2461-05	
	JENDL-3.2	5437				0.4000-02	0.1187-04	
54-Xe-129	Total	JEF-2.2	5440	22.34	20.29	390.2	4.905	5.949
		ENDF/B-VI	5440	22.36	20.36	390.4	4.888	5.951
		JENDL-3.2	5440	42.14	39.75	443.7	4.977	5.881
	Elast.	JEF-2.2	5440	4.321	4.316	134.6	2.925	4.133
		ENDF/B-VI	5440	4.321	4.325	134.7	2.912	4.132
		JENDL-3.2	5440	21.12	21.10	188.4	3.457	4.268
	Inel.	JEF-2.2	5440			0.4396	0.7505-01	1.736
		ENDF/B-VI	5440			0.4397	0.7505-01	1.736
		JENDL-3.2	5440			0.2811	0.2394	1.563

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
54-Xe-129	n,2n	JEF-2.2	5440				1.900	0.1377-01
		ENDF/B-VI	5440				1.900	0.1377-01
		JENDL-3.2	5440				1.268	0.6287-02
	n,3n	JEF-2.2	5440					0.3167-05
		ENDF/B-VI	5440					0.3167-05
		JENDL-3.2	5440					0.1593-05
	n,g	JEF-2.2	5440	18.02	15.98	255.1		0.6539-01
		ENDF/B-VI	5440	18.11	16.03	255.2		0.6549-01
		JENDL-3.2	5440	21.01	18.63	255.0	0.1000-02	0.4114-01
	n,p	JEF-2.2	5440				0.3950-02	0.1143-04
		ENDF/B-VI	5440				0.3950-02	0.1143-04
		JENDL-3.2	5440				0.6696-02	0.1195-04
	n,d	JEF-2.2	5440				0.4970-03	0.3604-06
		ENDF/B-VI	5440				0.4970-03	0.3604-06
		JENDL-3.2	5440				0.8138-03	0.4390-06
	n,t	JEF-2.2	5440				0.3430-03	0.2075-06
		ENDF/B-VI	5440				0.3430-03	0.2075-06
		JENDL-3.2	5440				0.1847-04	0.3930-07
	n,He3	JEF-2.2	5440				0.2192-05	0.3622-08
		JENDL-3.2	5440				0.7366-14	0.2280-10
	n,a	JEF-2.2	5440				0.6735-03	0.1553-04
		ENDF/B-VI	5440				0.6730-03	0.1553-04
		JENDL-3.2	5440				0.3034-02	0.1127-04
	54-Xe-130	Total	JEF-2.2	5443	10.51	9.784	85.08	4.922
ENDF/B-VI			5443	10.51	9.808	85.16	4.898	5.975
JENDL-3.2			5443	40.56	37.60	157.5	4.974	5.882
Elast.		JEF-2.2	5443	4.302	4.299	80.78	2.953	4.625
		ENDF/B-VI	5443	4.319	4.311	80.88	2.943	4.626
		JENDL-3.2	5443	14.54	14.54	140.2	3.242	4.779
Inel.		JEF-2.2	5443				0.5289-01	1.305
		ENDF/B-VI	5443				0.5289-01	1.305
		JENDL-3.2	5443				0.1748	0.9978
n,2n		JEF-2.2	5443				1.910	0.2507-02
		ENDF/B-VI	5443				1.910	0.2507-02
		JENDL-3.2	5443				1.548	0.1874-02
n,3n		JEF-2.2	5443					0.5581-05
		ENDF/B-VI	5443					0.5581-05
		JENDL-3.2	5443					0.3171-05
n,g		JEF-2.2	5443	6.206	5.485	4.296		0.4040-01
		ENDF/B-VI	5443	6.239	5.504	4.303		0.4043-01
		JENDL-3.2	5443	26.01	23.05	17.30	0.1053-02	0.1008

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
54-Xe-130	n,p	JEF-2.2	5443				0.5850-02	0.1048-04	
		ENDF/B-VI	5443				0.5850-02	0.1048-04	
		JENDL-3.2	5443				0.8258-02	0.7035-05	
	n,d	JEF-2.2	5443				0.3400-03	0.2787-06	
		ENDF/B-VI	5443				0.3400-03	0.2787-06	
		JENDL-3.2	5443				0.8024-04	0.1235-06	
	n,t	JEF-2.2	5443				0.9110-05	0.3400-07	
		ENDF/B-VI	5443				0.9110-05	0.3400-07	
		JENDL-3.2	5443				0.3152-07	0.1136-07	
	n,He3	JEF-2.2	5443				0.2159-05	0.3524-08	
	n,a	JEF-2.2	5443				0.1490-03	0.8159-06	
		ENDF/B-VI	5443				0.1490-03	0.8158-06	
		JENDL-3.2	5443				0.2185-02	0.2591-05	
	54-Xe-131	Total	JEF-2.2	5446	109.5	99.93	2958.	4.938	5.991
			ENDF/B-VI	5446	94.93	84.65	2877.	4.916	5.992
			JENDL-3.2	5446	109.2	99.65	2938.	4.977	5.878
BROND-2			5431	110.4	100.8	2966.	4.938	5.981	
Elast.		JEF-2.2	5446	24.46	24.45	2068.	2.949	4.173	
		ENDF/B-VI	5446	4.320	4.328	1862.	2.935	4.171	
		JENDL-3.2	5446	24.12	24.12	2039.	3.458	4.498	
		BROND-2	5431	25.37	25.38	2072.	2.949	4.163	
Incl.		JEF-2.2	5446			0.2459-01	0.3207-01	1.772	
		ENDF/B-VI	5446			0.2459-01	0.3207-01	1.772	
		JENDL-3.2	5446			0.1197-01	0.1283	1.325	
		BROND-2	5431			0.2459-01	0.3207-01	1.772	
n,2n		JEF-2.2	5446				1.950	0.2038-01	
		ENDF/B-VI	5446				1.950	0.2038-01	
		JENDL-3.2	5446				1.382	0.1197-01	
		BROND-2	5431				1.950	0.2038-01	
n,3n		JEF-2.2	5446					0.6565-05	
		ENDF/B-VI	5446					0.6565-05	
		JENDL-3.2	5446					0.3029-05	
		BROND-2	5431					0.6565-05	
n,g		JEF-2.2	5446	85.06	75.47	890.3	0.1000-07	0.2576-01	
		ENDF/B-VI	5446	90.61	80.27	1016.		0.2574-01	
		JENDL-3.2	5446	85.08	75.50	899.0	0.1000-02	0.4186-01	
		BROND-2	5431	85.04	75.45	893.8	0.1100-02	0.2638-01	
n,p		JEF-2.2	5446				0.5810-02	0.1445-04	
		ENDF/B-VI	5446				0.5810-02	0.1445-04	
		JENDL-3.2	5446				0.5040-02	0.6116-05	
		BROND-2	5431				0.5810-02	0.1528-04	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
54-Xe-131	n,d	JEF-2.2	5446				0.2770-03	0.2146-06	
		ENDF/B-VI	5446				0.2770-03	0.2146-06	
		JENDL-3.2	5446				0.4523-03	0.3006-06	
		BROND-2	5431				0.2770-03	0.2146-06	
	n,t	JEF-2.2	5446				0.2430-03	0.2123-06	
		ENDF/B-VI	5446				0.2430-03	0.2123-06	
		JENDL-3.2	5446				0.1130-04	0.3679-07	
		BROND-2	5431				0.2430-03	0.2123-06	
	n,He3	JEF-2.2	5446				0.2065-05	0.3248-08	
	n,a	JEF-2.2	5446				0.3750-03	0.5526-05	
		ENDF/B-VI	5446				0.3750-03	0.5526-05	
		JENDL-3.2	5446				0.1703-02	0.3431-05	
		BROND-2	5431				0.3750-03	0.5526-05	
	54-Xe-132	Total	JEF-2.2	5449	4.215	4.166	89.85	4.945	6.021
			ENDF/B-VI	5449	4.779	4.721	96.06	4.948	6.020
			JENDL-3.2	5449	3.613	3.562	76.17	4.974	5.886
		Elast.	JEF-2.2	5449	3.767	3.769	88.37	2.984	4.767
			ENDF/B-VI	5449	4.321	4.329	94.45	2.984	4.770
JENDL-3.2			5449	3.162	3.162	71.73	3.456	4.918	
Inel.		JEF-2.2	5449				0.4957-02	1.229	
		ENDF/B-VI	5449				0.4956-02	1.229	
		JENDL-3.2	5449				0.1718	0.9529	
n,2n		JEF-2.2	5449				1.960	0.3668-02	
		ENDF/B-VI	5449				1.960	0.3668-02	
		JENDL-3.2	5449				1.343	0.2090-02	
n,3n		JEF-2.2	5449					0.1061-04	
		ENDF/B-VI	5449					0.1061-04	
		JENDL-3.2	5449					0.5341-05	
n,g		JEF-2.2	5449	0.4490	0.3978	1.486	0.1001-07	0.2272-01	
		ENDF/B-VI	5449	0.4429	0.3916	1.619		0.2275-01	
		JENDL-3.2	5449	0.4503	0.3990	4.434	0.1001-02	0.1345-01	
n,p		JEF-2.2	5449				0.2700-02	0.3654-05	
		ENDF/B-VI	5449				0.2700-02	0.3654-05	
		JENDL-3.2	5449				0.2523-02	0.1650-05	
n,d		JEF-2.2	5449				0.2030-03	0.1384-06	
		ENDF/B-VI	5449				0.2030-03	0.1384-06	
		JENDL-3.2	5449				0.4626-04	0.1022-06	
n,t		JEF-2.2	5449				0.3020-05	0.1990-07	
		ENDF/B-VI	5449				0.3020-05	0.1990-07	
		JENDL-3.2	5449				0.5980-08	0.1026-07	
n,He3		JEF-2.2	5449				0.2034-05	0.3103-08	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
54-Xe-132	n,a	JEF-2.2	5449				0.6840-04	0.2610-06
		ENDF/B-VI	5449				0.6840-04	0.2610-06
		JENDL-3.2	5449				0.1216-02	0.9326-06
54-Xe-133	Total	JEF-2.2	5452	195.2	174.3	454.6	4.667	5.752
		ENDF/B-VI	5452	195.7	176.8	595.4	4.656	5.759
		JENDL-3.2	5452	193.9	172.6	218.5	4.974	5.883
	Elast.	JEF-2.2	5452	4.975	5.731	97.78	3.166	4.611
		ENDF/B-VI	5452	4.787	4.795	96.89	3.169	4.610
		JENDL-3.2	5452	3.615	3.614	128.0	3.461	4.608
	Inel.	JEF-2.2	5452				1.496	1.129
		ENDF/B-VI	5452				1.496	1.129
		JENDL-3.2	5452				0.1250	1.243
	n,2n	JENDL-3.2	5452				1.386	0.1376-01
	n,3n	JENDL-3.2	5452					0.4363-05
	n,g	JEF-2.2	5452	190.2	168.5	356.5	0.2531-02	0.8998-02
		ENDF/B-VI	5452	191.3	169.1	357.4	0.2531-02	0.9019-02
		JENDL-3.2	5452	190.1	168.5	89.97	0.1000-02	0.1426-01
	n,p	JEF-2.2	5452				0.2147-02	0.6643-05
		JENDL-3.2	5452				0.1945-02	0.1733-05
	n,d	JEF-2.2	5452				0.5778-03	0.7236-06
		JENDL-3.2	5452				0.2866-03	0.2463-06
	n,t	JEF-2.2	5452				0.6074-04	0.6137-07
		JENDL-3.2	5452				0.9202-05	0.3844-07
	n,He3	JEF-2.2	5452				0.2591-05	0.2897-08
n,a	JEF-2.2	5452			0.1720-07	0.1133-02	0.5255-05	
	JENDL-3.2	5452				0.9737-03	0.7727-06	
54-Xe-134	Total	JEF-2.2	5455	4.613	4.586	85.80	4.992	6.078
		ENDF/B-VI	5455	4.630	4.596	86.04	4.973	6.077
		JENDL-3.2	5455	3.999	3.970	51.74	4.976	5.882
	Elast.	JEF-2.2	5455	4.367	4.365	85.23	2.980	4.990
		ENDF/B-VI	5455	4.365	4.373	85.32	2.967	4.993
		JENDL-3.2	5455	3.734	3.734	51.17	3.456	5.031
	Inel.	JEF-2.2	5455					1.072
		ENDF/B-VI	5455					1.072
		JENDL-3.2	5455				0.1423	0.8383
	n,2n	JEF-2.2	5455				2.010	0.4934-02
		ENDF/B-VI	5455				2.010	0.4934-02
		JENDL-3.2	5455				1.375	0.2845-02

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
54-Xe-134	n,3n	JEF-2.2	5455					0.1598-04	
		ENDF/B-VI	5455					0.1598-04	
		JENDL-3.2	5455					0.8438-05	
	n,g	JEF-2.2	5455	0.2496	0.2210	0.5681	0.1000-07	0.1243-01	
		ENDF/B-VI	5455	0.2517	0.2224	0.6972		0.1244-01	
		JENDL-3.2	5455	0.2651	0.2349	0.5721	0.1001-02	0.9516-02	
	n,p	JEF-2.2	5455				0.1590-02	0.2593-05	
		ENDF/B-VI	5455				0.1590-02	0.2593-05	
		JENDL-3.2	5455				0.1518-02	0.8472-06	
	n,d	JEF-2.2	5455				0.1240-03	0.1011-06	
		ENDF/B-VI	5455				0.1240-03	0.1011-06	
		JENDL-3.2	5455				0.4221-04	0.1018-06	
	n,t	JEF-2.2	5455				0.2150-05	0.1555-07	
		ENDF/B-VI	5455				0.2150-05	0.1555-07	
		JENDL-3.2	5455				0.3013-08	0.1003-07	
	n,He3	JEF-2.2	5455				0.6426-06	0.5775-09	
	n,a	JEF-2.2	5455				0.5180-04	0.1374-06	
		ENDF/B-VI	5455				0.5180-04	0.1374-06	
		JENDL-3.2	5455				0.6576-03	0.3905-06	
	54-Xe-135	Total	JEF-2.2	5458	0.2955+07	0.3104+07	0.1287+05	4.671	5.818
			ENDF/B-VI	5458	0.2955+07	0.3107+07	0.1290+05	4.654	5.819
JENDL-3.2			5458	0.2965+07	0.3122+07	0.1264+05	4.976	5.884	
Elast.		JEF-2.2	5458	0.2999+06	0.3839+06	5212.	3.454	5.038	
		ENDF/B-VI	5458	0.3005+06	0.3841+06	5223.	3.437	5.040	
		JENDL-3.2	5458	0.2996+06	0.3846+06	5035.	3.457	4.888	
Incl.		JEF-2.2	5458				1.215	0.7801	
		ENDF/B-VI	5458				1.214	0.7804	
		JENDL-3.2	5458				0.1317	0.9690	
n,2n		JENDL-3.2	5458				1.384	0.1331-01	
n,3n		JENDL-3.2	5458					0.6514-05	
n,g		JEF-2.2	5458	0.2656+07	0.2720+07	7656.	0.2382-02	0.7626-03	
		ENDF/B-VI	5458	0.2660+07	0.2721+07	7675.	0.2374-02	0.7634-03	
		JENDL-3.2	5458	0.2666+07	0.2738+07	7600.	0.1000-02	0.1056-01	
n,p		JENDL-3.2	5458				0.1029-02	0.6518-06	
n,d		JENDL-3.2	5458				0.1033-03	0.1457-06	
n,t		JENDL-3.2	5458				0.8034-05	0.3819-07	
n,a		JENDL-3.2	5458				0.1227-02	0.7098-06	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
54-Xe-136	Total	JEF-2.2	5461	4.482	4.484	106.8	4.999	6.138
		ENDF/B-VI	5461	4.805	5.302	107.7	4.999	6.144
		JENDL-3.2	5461	6.371	6.341	68.60	4.975	5.760
	Elast.	JEF-2.2	5461	4.320	4.319	106.7	2.976	5.301
		ENDF/B-VI	5461	4.321	4.328	107.0	2.962	5.310
		JENDL-3.2	5461	6.110	6.110	68.46	3.102	5.074
	Inel.	JEF-2.2	5461				0.3233	0.8262
		ENDF/B-VI	5461				0.3233	0.8263
		JENDL-3.2	5461				0.1600	0.6795
	n,2n	JEF-2.2	5461				1.700	0.6016-02
		ENDF/B-VI	5461				1.700	0.6016-02
		JENDL-3.2	5461				1.713	0.5494-02
	n,3n	JEF-2.2	5461					0.2524-04
		ENDF/B-VI	5461					0.2524-04
		JENDL-3.2	5461					0.1318-04
	n,g	JEF-2.2	5461	0.1602	0.1419	0.1192		0.1054-02
		ENDF/B-VI	5461	0.1604	0.1424	0.1195		0.1056-02
		JENDL-3.2	5461	0.2601	0.2305	0.1388	0.1000-02	0.5370-03
	n,p	JEF-2.2	5461				0.2820-04	0.1067-06
		ENDF/B-VI	5461				0.2820-04	0.1067-06
		JENDL-3.2	5461				0.1570-03	0.8997-07
n,d	JEF-2.2	5461				0.7800-04	0.5097-07	
	ENDF/B-VI	5461				0.7800-04	0.5097-07	
	JENDL-3.2	5461				0.8870-05	0.6425-07	
n,t	JEF-2.2	5461				0.1580-05	0.1226-07	
	ENDF/B-VI	5461				0.1580-05	0.1226-07	
	JENDL-3.2	5461				0.3547-08	0.1346-07	
n,He3	JEF-2.2	5461				0.5130-06	0.3020-09	
n,a	JEF-2.2	5461				0.4880-04	0.8101-07	
	ENDF/B-VI	5461				0.4880-04	0.8101-07	
	JENDL-3.2	5461				0.3410-03	0.1808-06	
55-Cs-133	Total	JEF-2.2	5525	33.01	29.75	555.7	5.037	5.972
		ENDF/B-VI	5525	34.66	31.40	517.5	4.847	6.037
		JENDL-3.2	5525	33.34	30.09	508.4	4.909	5.963
	Elast.	JEF-2.2	5525	3.894	3.891	117.0	2.942	4.304
		ENDF/B-VI	5525	4.981	4.985	134.7	3.073	4.209
		JENDL-3.2	5525	4.311	4.306	112.5	2.913	4.338
	Inel.	JEF-2.2	5525			0.1494-01	0.2953-01	1.607
		ENDF/B-VI	5525			0.2989-01	0.1594	1.758
		JENDL-3.2	5525			0.1548-01	0.4039	1.567

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
55-Cs-133	n,2n	JEF-2.2	5525				2.046	0.3532-02	
		ENDF/B-VI	5525				1.601	0.2847-02	
		JENDL-3.2	5525				1.582	0.2107-02	
	n,3n	JENDL-3.2	5525					0.3108-05	
		n,g	JEF-2.2	5525	29.12	25.86	438.6	0.1513-02	0.5801-01
			ENDF/B-VI	5525	29.67	26.41	382.7	0.1497-02	0.6363-01
	JENDL-3.2		5525	29.02	25.77	395.9	0.1001-02	0.5325-01	
	n,p	JEF-2.2	5525				0.1505-01	0.9432-04	
		ENDF/B-VI	5525				0.1157-01	0.3064-03	
		JENDL-3.2	5525				0.9409-02	0.1531-04	
	n,d	JEF-2.2	5525				0.1290-02	0.2373-05	
		JENDL-3.2	5525				0.1032-02	0.5657-06	
	n,t	JEF-2.2	5525				0.2160-04	0.2002-07	
		JENDL-3.2	5525				0.2551-04	0.5882-07	
	n,He3	JEF-2.2	5525				0.2499-05	0.2218-08	
		JENDL-3.2	5525				0.2719-14	0.1428-10	
	n,a	JEF-2.2	5525				0.1327-02	0.5063-05	
		ENDF/B-VI	5525				0.1220-02	0.4450-05	
		JENDL-3.2	5525				0.1329-02	0.1335-05	
	55-Cs-134	Total	JEF-2.2	5528	162.2	146.0	219.4	4.667	5.778
			ENDF/B-VI	5528	166.0	149.6	233.4	4.656	5.782
JENDL-3.2			5528	162.5	146.3	236.3	4.921	5.987	
Elast.		JEF-2.2	5528	22.45	22.39	139.9	3.170	3.990	
		ENDF/B-VI	5528	25.48	25.47	154.3	3.175	3.992	
		JENDL-3.2	5528	22.73	22.67	130.7	2.921	3.983	
Inel.		JEF-2.2	5528			0.7351	1.490	1.752	
		ENDF/B-VI	5528			0.7351	1.490	1.752	
		JENDL-3.2	5528			0.7872	0.3019	1.926	
n,2n		JENDL-3.2	5528				1.689	0.1044-01	
n,3n		JENDL-3.2	5528					0.2798-05	
n,g		JEF-2.2	5528	139.8	123.7	78.68	0.2697-02	0.3312-01	
		ENDF/B-VI	5528	140.2	124.0	78.06	0.2697-02	0.3320-01	
		JENDL-3.2	5528	139.7	123.6	104.7	0.1001-02	0.6703-01	
n,p		JEF-2.2	5528			0.1764-06	0.3872-02	0.5130-04	
		JENDL-3.2	5528				0.3399-02	0.7674-05	
n,d		JEF-2.2	5528				0.7955-03	0.1116-05	
		JENDL-3.2	5528				0.2597-02	0.1215-05	
n,t		JEF-2.2	5528				0.1065-04	0.1323-07	
		JENDL-3.2	5528				0.2032-03	0.1682-06	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
55-Cs-134	n,He3	JEF-2.2	5528				0.2068-05	0.3590-08
		JENDL-3.2	5528				0.5168-13	0.3769-10
	n,a	JEF-2.2	5528			0.3177-07	0.1703-02	0.9108-05
		JENDL-3.2	5528				0.1541-02	0.2220-05
55-Cs-135	Total	JEF-2.2	5531	14.10	13.06	188.9	4.932	6.014
		ENDF/B-VI	5531	13.78	13.76	165.9	4.654	5.810
		JENDL-3.2	5531	13.58	12.58	233.2	4.951	6.011
		BROND-2	5535	12.15	11.15	283.0	4.931	6.022
	Elast.	JEF-2.2	5531	5.080	5.080	127.9	2.898	4.539
		ENDF/B-VI	5531	4.835	4.843	97.53	3.198	4.697
		JENDL-3.2	5531	4.868	4.867	170.9	2.933	4.699
		BROND-2	5535	3.414	3.413	254.4	2.896	4.612
	Inel.	JEF-2.2	5531				0.2281	1.446
		ENDF/B-VI	5531				1.468	1.105
		JENDL-3.2	5531				0.3285	1.281
		BROND-2	5535				2.038	1.388
	n,2n	JEF-2.2	5531				1.806	0.2114-02
		JENDL-3.2	5531				1.683	0.2709-02
	n,3n	JENDL-3.2	5531					0.4423-05
	n,g	JEF-2.2	5531	9.015	7.979	61.02	0.9186-03	0.2771-01
		ENDF/B-VI	5531	8.719	7.743	61.79	0.2204-02	0.5695-02
		JENDL-3.2	5531	8.705	7.713	62.29	0.1003-02	0.2811-01
		BROND-2	5535	8.709	7.717	28.48	0.1093-02	0.1730-01
	n,p	JEF-2.2	5531				0.3456-03	0.1160-05
		JENDL-3.2	5531				0.2454-02	0.2565-05
	n,d	JEF-2.2	5531				0.6421-03	0.1014-05
		JENDL-3.2	5531				0.7627-03	0.4841-06
	n,t	JEF-2.2	5531				0.6430-04	0.6729-07
		JENDL-3.2	5531				0.1593-04	0.5616-07
	n,He3	JEF-2.2	5531				0.2038-05	0.2594-08
	n,a	JEF-2.2	5531				0.1592-03	0.1315-06
		JENDL-3.2	5531				0.1136-02	0.8715-06
55-Cs-136	Total	JEF-2.2	5534	5.217	5.070	218.7	4.668	5.828
		ENDF/B-VI	5534	5.177	5.026	218.8	4.668	5.828
		JENDL-3.2	5534	16.55	15.10	290.5	4.971	6.036
	Elast.	JEF-2.2	5534	3.916	3.918	180.2	3.193	4.763
		ENDF/B-VI	5534	3.859	3.866	178.8	3.195	4.755
		JENDL-3.2	5534	3.514	3.514	233.2	2.940	4.540

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
55-Cs-136	Inel.	JEF-2.2	5534				1.470	1.035
		ENDF/B-VI	5534				1.470	1.035
		JENDL-3.2	5534			0.5935-02	0.2526	1.461
	n,2n	JENDL-3.2	5534				1.772	0.1189-01
	n,3n	JENDL-3.2	5534					0.4178-05
	n,g	JEF-2.2	5534	1.302	1.153	38.39	0.2546-02	0.2771-01
		ENDF/B-VI	5534	1.309	1.158	39.77	0.2548-02	0.2778-01
		JENDL-3.2	5534	13.01	11.53	57.23	0.1000-02	0.1969-01
	n,p	JEF-2.2	5534				0.2074-02	0.1474-04
		JENDL-3.2	5534			0.4586-07	0.1825-02	0.2132-05
	n,d	JEF-2.2	5534				0.5799-03	0.7614-06
		JENDL-3.2	5534				0.1462-02	0.7840-06
	n,t	JEF-2.2	5534				0.8116-05	0.9606-08
		JENDL-3.2	5534				0.1269-03	0.1252-06
n,He3	JEF-2.2	5534				0.7978-06	0.8741-09	
n,a	JEF-2.2	5534	0.4765-13	0.9426-13	0.1842-06	0.2925-02	0.1046-04	
	JENDL-3.2	5534				0.9000-03	0.8056-06	
55-Cs-137	Total	JEF-2.2	5537	2.659	2.644	89.80	4.981	6.068
		ENDF/B-VI	5537	5.014	5.088	83.58	4.669	5.860
		JENDL-3.2	5537	3.799	3.786	74.30	4.990	6.067
	Elast.	JEF-2.2	5537	2.519	2.519	89.20	2.922	5.073
		ENDF/B-VI	5537	4.882	4.890	82.80	3.276	4.879
		JENDL-3.2	5537	3.543	3.544	73.93	2.937	5.132
	Inel.	JEF-2.2	5537				0.8532-01	0.9839
		ENDF/B-VI	5537				1.391	0.9757
		JENDL-3.2	5537				0.3275	0.9239
	n,2n	JEF-2.2	5537				1.969	0.3348-02
		JENDL-3.2	5537				1.721	0.3982-02
	n,3n	JENDL-3.2	5537					0.8750-05
	n,g	JEF-2.2	5537	0.1416	0.1254	0.5985	0.8956-03	0.6821-02
		ENDF/B-VI	5537	0.1103	0.9792-01	0.4759	0.1790-02	0.1724-02
		JENDL-3.2	5537	0.2502	0.2217	0.3339	0.1001-02	0.4993-02
	n,p	JEF-2.2	5537				0.1254-02	0.2028-05
		JENDL-3.2	5537				0.1175-02	0.4902-06
	n,d	JEF-2.2	5537				0.4759-03	0.7054-06
		JENDL-3.2	5537				0.3101-03	0.3028-06
	n,t	JEF-2.2	5537				0.5039-04	0.5221-07
JENDL-3.2		5537				0.1500-04	0.6338-07	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
55-Cs-137	n,He3	JEF-2.2	5537				0.5907-06	0.5632-09
	n,a	JEF-2.2	5537	0.8474-14	0.1677-13	0.3277-07	0.6910-03	0.1923-05
		JENDL-3.2	5537				0.6632-03	0.3930-06
56-Ba-130	Total	JENDL-3.2	5625	14.44	13.15	482.8	5.079	6.245
	Elast.	JENDL-3.2	5625	3.138	3.136	307.7	2.674	4.646
	Inel.	JENDL-3.2	5625				1.034	1.067
	n,2n	JENDL-3.2	5625				1.301	0.6383-03
	n,3n	JENDL-3.2	5625					0.2541-06
	n,g	JENDL-3.2	5625	11.30	10.01	175.1	0.1640-01	0.5246
	n,p	JENDL-3.2	5625				0.2434-01	0.2547-03
	n,d	JENDL-3.2	5625				0.9903-03	0.5227-06
	n,t	JENDL-3.2	5625				0.2937-05	0.2022-07
	n,He3	JENDL-3.2	5625				0.4443-09	0.2549-09
	n,a	JENDL-3.2	5625				0.9691-02	0.1365-03
	56-Ba-132	Total	JENDL-3.2	5631	10.34	9.567	96.06	5.078
Elast.		JENDL-3.2	5631	3.314	3.313	65.88	2.742	4.869
Inel.		JENDL-3.2	5631				0.7673	1.092
n,2n		JENDL-3.2	5631				1.542	0.1043-02
n,3n		JENDL-3.2	5631					0.9058-06
n,g		JENDL-3.2	5631	7.005	6.208	30.09	0.3813-02	0.2729
n,p		JENDL-3.2	5631				0.1275-01	0.4077-04
n,d		JENDL-3.2	5631				0.3753-03	0.2684-06
n,t		JENDL-3.2	5631				0.1370-05	0.1700-07
n,He3		JENDL-3.2	5631				0.1281-10	0.3864-10
n,a		JENDL-3.2	5631				0.4415-02	0.3672-04

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
56-Ba-134	Total	JEF-2.2	5637	6.360	6.116	134.8	4.667	5.780
		ENDF/B-VI	5637	7.368	7.138	140.8	4.656	5.782
		JENDL-3.2	5637	5.443	5.215	115.1	5.078	6.253
	Elast.	JEF-2.2	5637	4.202	4.202	111.1	3.185	4.746
		ENDF/B-VI	5637	5.364	5.374	117.0	3.193	4.740
		JENDL-3.2	5637	3.439	3.439	90.91	2.775	5.066
	Inel.	JEF-2.2	5637				1.472	0.9924
		ENDF/B-VI	5637				1.472	0.9924
		JENDL-3.2	5637				0.7477	1.046
	n,2n	JENDL-3.2	5637				1.543	0.1250-02
	n,3n	JENDL-3.2	5637					0.2218-05
	n,g	JEF-2.2	5637	2.161	1.914	23.71	0.2400-02	0.3785-01
		ENDF/B-VI	5637	1.994	1.763	23.86	0.2400-02	0.3792-01
		JENDL-3.2	5637	2.003	1.775	24.21	0.1506-02	0.1376
	n,p	JEF-2.2	5637				0.6943-02	0.2005-04
		JENDL-3.2	5637				0.6837-02	0.1146-04
n,d	JEF-2.2	5637				0.1094-02	0.1176-05	
	JENDL-3.2	5637				0.2530-03	0.2239-06	
n,t	JEF-2.2	5637				0.1648-04	0.1471-07	
	JENDL-3.2	5637				0.5179-06	0.1395-07	
n,He3	JEF-2.2	5637				0.2229-05	0.4222-08	
n,a	JEF-2.2	5637	0.8276-13	0.1637-12	0.3199-06	0.2923-02	0.1378-04	
	JENDL-3.2	5637				0.2904-02	0.9620-05	
56-Ba-135	Total	JEF-2.2	5640	9.414	8.751	256.8	4.668	5.804
		ENDF/B-VI	5640	10.11	9.465	252.0	4.654	5.805
		JENDL-3.2	5640	7.605	6.945	288.0	5.078	6.247
	Elast.	JEF-2.2	5640	3.591	3.592	156.5	3.179	4.386
		ENDF/B-VI	5640	4.298	4.291	153.0	3.186	4.379
		JENDL-3.2	5640	1.804	1.804	157.3	2.909	4.971
	Inel.	JEF-2.2	5640				1.479	1.372
		ENDF/B-VI	5640				1.479	1.372
		JENDL-3.2	5640				0.5484	1.166
	n,2n	JENDL-3.2	5640				1.611	0.6660-02
	n,3n	JENDL-3.2	5640					0.1903-05
	n,g	JEF-2.2	5640	5.821	5.159	100.3	0.2846-02	0.4487-01
		ENDF/B-VI	5640	5.837	5.173	98.94	0.2849-02	0.4496-01
		JENDL-3.2	5640	5.799	5.140	130.8	0.1002-02	0.9707-01
	n,p	JEF-2.2	5640			0.4240-07	0.5655-02	0.2848-04
		JENDL-3.2	5640				0.5180-02	0.1022-04

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
56-Ba-135	n,d	JEF-2.2	5640				0.9089-03	0.1204-05	
		JENDL-3.2	5640				0.9632-03	0.5207-06	
	n,t	JEF-2.2	5640				0.8706-04	0.9249-07	
		JENDL-3.2	5640				0.2057-04	0.5151-07	
	n,He3	JEF-2.2	5640				0.2197-05	0.3836-08	
		JENDL-3.2	5640				0.2180-13	0.2236-10	
	n,a	JEF-2.2	5640			0.6463-07	0.2532-02	0.1713-04	
		JENDL-3.2	5640				0.2236-02	0.1006-04	
	56-Ba-136	Total	JEF-2.2	5643	5.213	5.169	74.17	4.668	5.827
			ENDF/B-VI	5643	5.955	5.897	78.63	4.668	5.826
			JENDL-3.2	5643	2.975	2.930	59.49	5.078	6.253
		Elast.	JEF-2.2	5643	4.806	4.806	72.28	3.205	4.963
ENDF/B-VI			5643	5.517	5.526	77.02	3.210	4.954	
JENDL-3.2			5643	2.574	2.574	57.58	2.840	5.298	
Inel.		JEF-2.2	5643				1.455	0.8479	
		ENDF/B-VI	5643				1.455	0.8479	
		JENDL-3.2	5643				0.5902	0.9126	
n,2n		JENDL-3.2	5643				1.640	0.1806-02	
n,3n		JENDL-3.2	5643					0.3719-05	
n,g		JEF-2.2	5643	0.4105	0.3637	1.884	0.2350-02	0.1475-01	
		ENDF/B-VI	5643	0.4154	0.3673	1.642	0.2350-02	0.1476-01	
		JENDL-3.2	5643	0.4003	0.3547	1.906	0.1016-02	0.3673-01	
n,p		JEF-2.2	5643				0.6822-02	0.1601-04	
		JENDL-3.2	5643				0.5062-02	0.4510-05	
n,d		JEF-2.2	5643				0.8108-03	0.7769-06	
		JENDL-3.2	5643				0.2229-03	0.1949-06	
n,t		JEF-2.2	5643				0.1260-04	0.1116-07	
	JENDL-3.2	5643				0.2146-06	0.1555-07		
n,He3	JEF-2.2	5643				0.2102-05	0.4395-08		
n,a	JEF-2.2	5643	0.3558-13	0.7039-13	0.1376-06	0.1712-02	0.6686-05		
	JENDL-3.2	5643				0.1637-02	0.1946-05		
56-Ba-137	Total	JEF-2.2	5646	9.671	9.089	94.72	4.670	5.852	
		ENDF/B-VI	5646	11.16	10.59	99.93	4.669	5.853	
		JENDL-3.2	5646	9.021	8.434	72.63	5.078	6.249	
	Elast.	JEF-2.2	5646	4.566	4.565	89.86	3.202	4.840	
		ENDF/B-VI	5646	6.034	6.046	96.06	3.204	4.832	
		JENDL-3.2	5646	3.896	3.895	67.95	2.909	5.380	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
56-Ba-137	Inel.	JEF-2.2	5646				1.462	1.001
		ENDF/B-VI	5646				1.462	1.001
		JENDL-3.2	5646				0.4621	0.8405
	n,2n	JENDL-3.2	5646				1.701	0.9349-02
	n,3n	JENDL-3.2	5646					0.2444-05
	n,g	JEF-2.2	5646	5.106	4.524	4.836	0.2693-02	0.9246-02
		ENDF/B-VI	5646	5.142	4.543	3.880	0.2696-02	0.9266-02
		JENDL-3.2	5646	5.124	4.537	4.672	0.1000-02	0.1483-01
	n,p	JEF-2.2	5646				0.3024-02	0.1064-04
		JENDL-3.2	5646				0.2828-02	0.2928-05
	n,d	JEF-2.2	5646				0.6661-03	0.9021-06
		JENDL-3.2	5646				0.7192-03	0.4480-06
	n,t	JEF-2.2	5646				0.6786-04	0.7150-07
		JENDL-3.2	5646				0.2612-04	0.5413-07
n,He3	JEF-2.2	5646				0.2071-05	0.3908-08	
n,a	JEF-2.2	5646			0.2029-07	0.1439-02	0.6275-05	
	JENDL-3.2	5646				0.1309-02	0.1958-05	
56-Ba-138	Total	JEF-2.2	5649	7.420	7.379	79.26	4.999	6.084
		ENDF/B-VI	5649	7.400	7.360	85.82	5.000	6.277
		JENDL-3.2	5649	5.930	5.890	60.33	5.078	6.236
	Elast.	JEF-2.2	5649	7.072	7.069	79.07	2.924	5.285
		ENDF/B-VI	5649	7.033	7.045	85.67	2.972	5.513
		JENDL-3.2	5649	5.570	5.570	60.07	2.889	5.576
	Inel.	JEF-2.2	5649				0.8003-01	0.7939
		ENDF/B-VI	5649				0.4983	0.7535
		JENDL-3.2	5649				0.4528	0.6520
	n,2n	JEF-2.2	5649				1.988	0.3354-02
		ENDF/B-VI	5649				1.500	0.5514-02
		JENDL-3.2	5649				1.731	0.2711-02
	n,3n	ENDF/B-VI	5649					0.2137-04
		JENDL-3.2	5649					0.7682-05
	n,g	JEF-2.2	5649	0.3506	0.3106	0.1764	0.9779-03	0.1626-02
		ENDF/B-VI	5649	0.3523	0.3115	0.3085	0.1000-02	0.2351-02
		JENDL-3.2	5649	0.3593	0.3184	0.2527	0.1350-02	0.2970-02
	n,p	JEF-2.2	5649				0.2965-02	0.3966-05
		ENDF/B-VI	5649				0.1833-02	0.1415-04
		JENDL-3.2	5649				0.1981-02	0.8777-06
	n,d	JEF-2.2	5649				0.6061-03	0.6050-06
JENDL-3.2		5649				0.5763-04	0.8885-07	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
56-Ba-138	n,t	JEF-2.2	5649				0.9724-05	0.8623-08
		JENDL-3.2	5649				0.2403-06	0.1134-07
	n,He3	JEF-2.2	5649				0.2677-05	0.3991-08
	n,a	JEF-2.2	5649	0.2268-13	0.4488-13	0.8775-07	0.1647-02	0.5096-05
ENDF/B-VI		5649				0.2776-01	0.1794-02	
JENDL-3.2		5649				0.1679-02	0.1493-05	
56-Ba-140	Total	JEF-2.2	5655	3.496	3.315	401.3	5.034	6.148
		ENDF/B-VI	5655	6.663	6.880	100.2	4.672	5.932
		JENDL-3.2	5655	4.925	4.749	44.44	5.074	6.237
	Elast.	JEF-2.2	5655	1.900	1.900	387.0	2.937	5.291
		ENDF/B-VI	5655	4.953	4.961	69.49	4.614	5.900
		JENDL-3.2	5655	3.312	3.313	43.59	2.910	5.278
	Inel.	JEF-2.2	5655				0.2046-02	0.8234
		ENDF/B-VI	5655				0.5614-01	0.2837-01
		JENDL-3.2	5655				0.1157	0.9387
	n,2n	JEF-2.2	5655				0.9529	0.2667-01
		JENDL-3.2	5655				1.175	0.1671-01
	n,3n	JEF-2.2	5655				1.139	0.3808-03
		JENDL-3.2	5655				0.8737	0.2691-03
	n,g	JEF-2.2	5655	1.596	1.414	14.32	0.9706-03	0.6551-02
		ENDF/B-VI	5655	1.604	1.423	12.79	0.1884-02	0.1694-02
		JENDL-3.2	5655	1.601	1.419	0.7227	0.1002-02	0.7990-03
	n,p	JEF-2.2	5655				0.1038-02	0.1513-05
		JENDL-3.2	5655				0.9133-03	0.4467-06
	n,d	JEF-2.2	5655				0.3907-03	0.7520-06
		JENDL-3.2	5655				0.1508-04	0.1035-06
n,t	JEF-2.2	5655				0.6827-05	0.6894-08	
	JENDL-3.2	5655				0.6302-04	0.9480-07	
n,He3	JEF-2.2	5655				0.5558-06	0.3955-09	
n,a	JEF-2.2	5655	0.4116-14	0.8146-14	0.1593-07	0.6130-03	0.1352-05	
	JENDL-3.2	5655				0.6668-03	0.8161-06	
57-La-138	Total	JENDL-3.2	5725	70.15	63.72	491.5	5.055	6.179
	Elast.	JENDL-3.2	5725	13.02	13.00	127.3	2.914	4.866
	Inel.	JENDL-3.2	5725			0.3213-02	0.3194	1.269
	n,2n	JENDL-3.2	5725				1.810	0.5981-02
	n,3n	JENDL-3.2	5725					0.1219-05

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
57-La-138	n,g	JENDL-3.2	5725	57.11	50.71	364.2	0.1001-02	0.3438-01
	n,p	JENDL-3.2	5725				0.4708-02	0.2409-04
	n,d	JENDL-3.2	5725				0.2569-02	0.1235-05
	n,t	JENDL-3.2	5725				0.1489-03	0.1436-06
	n,He3	JENDL-3.2	5725				0.1205-10	0.1102-09
	n,a	JENDL-3.2	5725				0.2002-02	0.5253-05
57-La-139	Total	JEF-2.2	5728	19.49	18.47	101.5	5.046	6.071
		ENDF/B-VI	5728	21.61	20.61	124.4	4.650	5.925
		JENDL-3.2	5728	19.10	18.09	111.4	5.067	6.211
	Elast.	JEF-2.2	5728	10.55	10.55	89.63	2.966	4.839
		ENDF/B-VI	5728	12.57	12.58	112.4	3.206	4.643
		JENDL-3.2	5728	10.17	10.16	99.65	2.907	5.241
	Inel.	JEF-2.2	5728				0.5566-01	1.222
		ENDF/B-VI	5728				1.443	1.275
		JENDL-3.2	5728				0.3490	0.9577
	n,2n	JEF-2.2	5728				2.018	0.3829-02
		JENDL-3.2	5728				1.800	0.2485-02
	n,3n	JENDL-3.2	5728					0.2317-05
	n,g	JEF-2.2	5728	8.940	7.917	11.90	0.7089-03	0.5474-02
		ENDF/B-VI	5728	9.039	8.031	12.00	0.9689-03	0.6567-02
		JENDL-3.2	5728	8.934	7.917	11.71	0.1002-02	0.7076-02
	n,p	JEF-2.2	5728				0.3894-02	0.1171-04
		JENDL-3.2	5728				0.4196-02	0.2434-05
	n,d	JEF-2.2	5728				0.3942-03	0.6456-06
		JENDL-3.2	5728				0.6328-03	0.4240-06
	n,t	JEF-2.2	5728				0.2079-04	0.2373-07
		JENDL-3.2	5728				0.1258-04	0.5286-07
n,He3	JEF-2.2	5728				0.2463-05	0.2482-08	
	JENDL-3.2	5728				0.7524-14	0.1325-10	
n,a	JEF-2.2	5728				0.1362-02	0.5236-05	
	JENDL-3.2	5728				0.2116-02	0.2398-05	
57-La-140	Total	JEF-2.2	5731	7.670	7.378	291.0	4.675	5.935
		ENDF/B-VI	5731	7.796	8.036	296.2	4.672	5.937
	Elast.	JEF-2.2	5731	4.956	4.959	224.9	3.003	4.167
		ENDF/B-VI	5731	4.953	4.961	225.5	2.999	4.168

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
57-La-140	Inel.	JEF-2.2	5731			0.3392	1.670	1.730
		ENDF/B-VI	5731			0.3392	1.670	1.730
	n,g	JEF-2.2	5731	2.703	2.395	64.96	0.2331-02	0.3372-01
		ENDF/B-VI	5731	2.706	2.402	65.13	0.2330-02	0.3379-01
	n,d	JEF-2.2	5731				0.6630-03	0.9624-06
	n,t	JEF-2.2	5731				0.1027-04	0.1530-07
	n,He3	JEF-2.2	5731				0.2733-05	0.4592-08
n,a	JEF-2.2	5731			0.1191-07	0.1310-02	0.5982-05	
58-Ce-140	Total	JEF-2.2	5837	3.853	3.786	48.86	4.674	5.934
		ENDF/B-VI	5837	5.581	5.751	82.88	4.672	5.942
		JENDL-3.2	5837	3.411	3.346	45.19	5.078	6.269
		BROND-2	5840	3.551	3.494	112.7	5.028	6.155
	Elast.	JEF-2.2	5837	3.278	3.277	48.58	3.237	5.402
		ENDF/B-VI	5837	4.953	4.961	80.97	3.242	5.397
		JENDL-3.2	5837	2.840	2.840	44.93	2.818	5.648
		BROND-2	5840	2.973	2.972	112.2	2.973	5.448
	Inel.	JEF-2.2	5837				1.427	0.5155
		ENDF/B-VI	5837				1.427	0.5155
		JENDL-3.2	5837				0.4144	0.6135
		BROND-2	5840				2.053	0.6968
	n,2n	JENDL-3.2	5837				1.833	0.1810-02
	n,3n	JENDL-3.2	5837					0.1722-05
	n,g	JEF-2.2	5837	0.5750	0.5093	0.2813	0.2142-02	0.1476-01
		ENDF/B-VI	5837	0.5713	0.5074	0.3918	0.2141-02	0.1482-01
		JENDL-3.2	5837	0.5699	0.5049	0.2556	0.1004-02	0.6008-02
		BROND-2	5840	0.5707	0.5056	0.4273	0.1097-02	0.9340-02
	n,p	JEF-2.2	5837				0.5097-02	0.8488-05
		JENDL-3.2	5837				0.5999-02	0.3397-05
	n,d	JEF-2.2	5837				0.9153-03	0.9939-06
		JENDL-3.2	5837				0.2923-03	0.2407-06
	n,t	JEF-2.2	5837				0.1516-04	0.1416-07
		JENDL-3.2	5837				0.1383-05	0.1905-07
	n,He3	JEF-2.2	5837				0.2235-05	0.5772-08
	n,a	JEF-2.2	5837	0.8214-13	0.1626-12	0.3178-06	0.4599-02	0.1623-04
		JENDL-3.2	5837				0.3815-02	0.4988-05

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
58-Ce-141	Total	JEF-2.2	5840	36.17	32.44	387.6	5.052	6.166
		ENDF/B-VI	5840	34.59	33.68	293.7	4.677	5.965
		JENDL-3.2	5840	31.49	28.20	654.5	5.088	6.286
	Elast.	JEF-2.2	5840	3.415	3.414	222.8	2.937	5.116
		ENDF/B-VI	5840	4.976	4.984	256.2	3.242	5.074
		JENDL-3.2	5840	2.357	2.352	152.1	2.917	5.416
	Inel.	JEF-2.2	5840				0.7731-02	0.9537
		ENDF/B-VI	5840				1.434	0.8341
		JENDL-3.2	5840				0.1416	0.7571
	n,2n	JEF-2.2	5840				2.098	0.2005-01
		JENDL-3.2	5840				2.022	0.3417-01
	n,3n	JENDL-3.2	5840					0.1126-04
	n,g	JEF-2.2	5840	32.76	29.02	164.8	0.1467-02	0.7765-01
		ENDF/B-VI	5840	29.07	25.80	23.97	0.2498-02	0.4476-01
		JENDL-3.2	5840	29.13	25.85	502.3	0.1001-02	0.7331-01
	n,p	JEF-2.2	5840				0.3680-02	0.7746-05
		JENDL-3.2	5840				0.3649-02	0.2209-05
	n,d	JEF-2.2	5840				0.7754-03	0.1031-05
		JENDL-3.2	5840				0.7796-03	0.4590-06
	n,t	JEF-2.2	5840				0.7614-04	0.9111-07
JENDL-3.2		5840				0.3453-03	0.2067-06	
n,He3	JEF-2.2	5840				0.2136-05	0.5040-08	
n,a	JEF-2.2	5840			0.2051-07	0.1895-02	0.9609-05	
	JENDL-3.2	5840				0.1763-02	0.6012-04	
58-Ce-142	Total	JEF-2.2	5843	4.687	4.585	200.3	5.069	6.193
		ENDF/B-VI	5843	6.026	6.234	110.1	4.683	6.000
		JENDL-3.2	5843	1.621	1.507	225.2	5.102	6.347
		BROND-2	5842	3.548	3.454	128.6	4.844	6.494
	Elast.	JEF-2.2	5843	3.787	3.786	199.3	2.943	4.970
		ENDF/B-VI	5843	4.997	5.007	107.2	3.336	5.411
		JENDL-3.2	5843	0.6168	0.6167	224.3	2.804	5.278
		BROND-2	5842	2.716	2.715	127.9	2.749	5.349
	Inel.	JEF-2.2	5843				0.2184-01	1.195
		ENDF/B-VI	5843				1.340	0.5562
		JENDL-3.2	5843				0.2393	1.052
		BROND-2	5842				2.086	1.131
	n,2n	JEF-2.2	5843				1.796	0.1089-01
		JENDL-3.2	5843				1.990	0.9867-02
	n,3n	JEF-2.2	5843				0.3000	0.1050-03
		JENDL-3.2	5843				0.5417-01	0.3541-04

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
58-Ce-142	n,g	JEF-2.2	5843	0.9011	0.7984	0.9292	0.1061-02	0.1736-01
		ENDF/B-VI	5843	0.9527	0.8456	0.7593	0.2046-02	0.1579-01
		JENDL-3.2	5843	1.004	0.8900	0.8962	0.1004-02	0.7528-02
		BROND-2	5842	0.8322	0.7373	0.6552	0.1097-02	0.7905-02
	n,p	JEF-2.2	5843				0.3640-02	0.5935-05
		JENDL-3.2	5843				0.3569-02	0.1689-05
	n,d	JEF-2.2	5843				0.8454-03	0.1583-05
		JENDL-3.2	5843				0.1416-03	0.1924-06
	n,t	JEF-2.2	5843				0.1061-04	0.1093-07
		JENDL-3.2	5843				0.4942-04	0.6778-07
	n,He3	JEF-2.2	5843				0.2789-05	0.5459-08
	n,a	JEF-2.2	5843	0.2126-13	0.4209-13	0.8230-07	0.2520-02	0.6367-05
		JENDL-3.2	5843				0.2700-02	0.8272-05
	58-Ce-143	Total	JEF-2.2	5846	11.06	10.40	275.3	4.681
ENDF/B-VI			5846	11.24	11.51	283.7	4.681	6.024
Elast.		JEF-2.2	5846	5.033	5.058	233.1	3.251	5.073
		ENDF/B-VI	5846	5.020	5.030	233.7	3.250	5.077
Inel.		JEF-2.2	5846				1.429	0.9193
		ENDF/B-VI	5846				1.429	0.9193
n,g		JEF-2.2	5846	6.008	5.323	41.48	0.2405-02	0.1283-01
		ENDF/B-VI	5846	6.015	5.339	41.58	0.2405-02	0.1286-01
n,p		JEF-2.2	5846				0.2064-02	0.4139-05
n,d		JEF-2.2	5846				0.5837-03	0.8146-06
n,t		JEF-2.2	5846				0.5997-04	0.6921-07
n,He3		JEF-2.2	5846				0.8303-06	0.1302-08
n,a		JEF-2.2	5846			0.9628-08	0.1112-02	0.4116-05
58-Ce-144		Total	JEF-2.2	5849	4.533	4.406	275.0	5.101
	ENDF/B-VI		5849	6.125	6.334	107.2	4.685	6.058
	JENDL-3.2		5849	3.799	3.692	117.1	5.115	6.394
	BROND-2		5844	3.680	3.565	133.9	5.076	6.281
	Elast.	JEF-2.2	5849	3.405	3.404	272.2	2.956	4.461
		ENDF/B-VI	5849	5.044	5.054	100.7	3.271	5.568
		JENDL-3.2	5849	2.790	2.790	114.5	2.918	5.259
		BROND-2	5844	2.671	2.670	132.9	2.939	4.799

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
58-Ce-144	Inel.	JEF-2.2	5849				0.6114-02	1.807
		ENDF/B-VI	5849				1.412	0.4641
		JENDL-3.2	5849				0.9303-01	1.108
		BROND-2	5844				2.135	1.467
	n,2n	JEF-2.2	5849				1.412	0.1534-01
		JENDL-3.2	5849				1.662	0.1346-01
	n,3n	JEF-2.2	5849				0.7234	0.2248-03
		JENDL-3.2	5849				0.4397	0.1499-03
	n,g	JEF-2.2	5849	1.129	1.001	2.800	0.9456-03	0.7881-02
		ENDF/B-VI	5849	1.003	0.8900	2.024	0.1934-02	0.1091-01
		JENDL-3.2	5849	1.001	0.8868	2.507	0.1007-02	0.6302-02
		BROND-2	5844	1.001	0.8871	1.001	0.1093-02	0.9201-02
	n,p	JEF-2.2	5849				0.1479-02	0.2217-05
		JENDL-3.2	5849				0.1339-02	0.6344-06
	n,d	JEF-2.2	5849				0.4546-03	0.9225-06
		JENDL-3.2	5849				0.2227-04	0.8468-07
	n,t	JEF-2.2	5849				0.8293-05	0.8489-08
		JENDL-3.2	5849				0.4072-04	0.7393-07
	n,He3	JEF-2.2	5849				0.6630-06	0.6202-09
	n,a	JEF-2.2	5849	0.7305-14	0.1446-13	0.2828-07	0.7955-03	0.2132-05
JENDL-3.2		5849				0.7609-03	0.1929-05	
59-Pr-141	Total	JEF-2.2	5925	14.09	12.77	233.5	5.060	6.120
		ENDF/B-VI	5925	13.71	12.42	302.5	5.002	6.461
		JENDL-3.2	5925	14.06	12.74	239.1	4.890	6.164
	Elast.	JEF-2.2	5925	2.598	2.596	215.6	2.970	4.717
		ENDF/B-VI	5925	2.179	2.184	283.5	2.803	5.073
		JENDL-3.2	5925	2.549	2.546	220.8	2.952	4.788
	Inel.	JEF-2.2	5925				0.9991-01	1.385
		ENDF/B-VI	5925				0.2767	1.365
		JENDL-3.2	5925				0.1960	1.354
	n,2n	JEF-2.2	5925				1.976	0.2330-02
		ENDF/B-VI	5925				1.922	0.2178-02
		JENDL-3.2	5925				1.720	0.1726-02
	n,3n	ENDF/B-VI	5925					0.8687-06
		JENDL-3.2	5925					0.6180-06
	n,g	JEF-2.2	5925	11.49	10.18	17.86	0.2727-02	0.1548-01
		ENDF/B-VI	5925	11.53	10.24	18.96	0.1002-02	0.1725-01
		JENDL-3.2	5925	11.51	10.19	18.29	0.1002-02	0.1857-01
	n,p	JEF-2.2	5925				0.8392-02	0.3425-04
		ENDF/B-VI	5925	0.4173-06	0.3709-06	0.9030-05	0.5779-02	0.1744-04
		JENDL-3.2	5925				0.8766-02	0.1298-04

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
59-Pr-141	n,d	JEF-2.2	5925				0.8112-03	0.1396-05
		ENDF/B-VI	5925				0.6375-02	0.5572-05
		JENDL-3.2	5925				0.2074-02	0.9667-06
	n,t	JEF-2.2	5925				0.2470-04	0.2962-07
		ENDF/B-VI	5925				0.1201-02	0.6629-06
		JENDL-3.2	5925				0.3446-04	0.4999-07
	n,He3	JEF-2.2	5925				0.2935-05	0.3186-08
		ENDF/B-VI	5925					0.7450-08
		JENDL-3.2	5925				0.1093-09	0.1102-09
	n,a	JEF-2.2	5925				0.2671-02	0.1207-04
		ENDF/B-VI	5925	0.1809-04	0.1610-04	0.4679-03	0.4703-02	0.7045-04
		JENDL-3.2	5925				0.2673-02	0.7671-05
59-Pr-142	Total	JEF-2.2	5928	25.05	22.80	499.8	4.678	5.983
		ENDF/B-VI	5928	25.40	24.80	510.5	4.683	5.994
	Elast.	JEF-2.2	5928	5.017	5.040	353.7	3.243	4.810
		ENDF/B-VI	5928	4.997	5.007	354.6	3.251	4.811
	Inel.	JEF-2.2	5928				1.424	1.142
		ENDF/B-VI	5928				1.424	1.142
	n,g	JEF-2.2	5928	20.03	17.74	144.8	0.2566-02	0.2911-01
		ENDF/B-VI	5928	20.04	17.79	145.1	0.2565-02	0.2918-01
	n,p	JEF-2.2	5928			0.1161-06	0.6552-02	0.3445-04
	n,d	JEF-2.2	5928				0.1001-02	0.1560-05
	n,t	JEF-2.2	5928				0.1577-04	0.2337-07
	n,He3	JEF-2.2	5928				0.2269-05	0.5596-08
n,a	JEF-2.2	5928			0.3648-07	0.2725-02	0.1574-04	
59-Pr-143	Total	JEF-2.2	5931	94.23	84.27	592.5	4.681	6.022
		ENDF/B-VI	5931	95.09	88.13	612.2	4.681	6.023
		JENDL-3.2	5931	93.03	82.93	1007.	4.787	6.231
	Elast.	JEF-2.2	5931	5.091	5.293	402.1	3.604	4.825
		ENDF/B-VI	5931	5.020	5.030	401.6	3.609	4.825
		JENDL-3.2	5931	2.911	2.911	820.7	2.960	4.709
	Inel.	JEF-2.2	5931			0.1088	1.070	1.140
		ENDF/B-VI	5931			0.1088	1.070	1.140
		JENDL-3.2	5931			0.1193	0.1656	1.496
	n,2n	JENDL-3.2	5931				1.626	0.8448-02
	n,3n	JENDL-3.2	5931				0.1977-01	0.4035-04

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
59-Pr-143	n,g	JEF-2.2	5931	89.12	78.95	189.2	0.2243-02	0.5664-01
		ENDF/B-VI	5931	89.20	79.18	189.7	0.2243-02	0.5677-01
		JENDL-3.2	5931	90.06	79.82	185.9	0.1000-02	0.1460-01
	n,p	JEF-2.2	5931				0.4537-02	0.1280-04
		JENDL-3.2	5931				0.4663-02	0.3971-05
	n,d	JEF-2.2	5931				0.8569-03	0.1501-05
		JENDL-3.2	5931				0.1494-02	0.7253-06
	n,t	JEF-2.2	5931				0.8039-04	0.1002-06
		JENDL-3.2	5931				0.5418-03	0.2846-06
	n,He3	JEF-2.2	5931				0.2169-05	0.6324-08
		JENDL-3.2	5931				0.1999-12	0.2917-10
	n,a	JEF-2.2	5931			0.1252-07	0.1919-02	0.5425-05
		JENDL-3.2	5931				0.2135-02	0.1605-04
	60-Nd-142	Total	JEF-2.2	6025	27.21	25.05	86.62	4.678
ENDF/B-VI			6025	23.33	21.23	85.98	4.683	5.991
JENDL-3.2			6025	26.44	24.32	99.55	4.781	6.356
Elast.		JEF-2.2	6025	8.554	8.543	80.55	3.298	5.390
		ENDF/B-VI	6025	4.586	4.595	77.10	3.312	5.385
		JENDL-3.2	6025	7.728	7.727	91.08	2.842	5.560
Inel.		JEF-2.2	6025				1.364	0.5716
		ENDF/B-VI	6025				1.364	0.5716
		JENDL-3.2	6025				0.3569	0.7393
n,2n		JENDL-3.2	6025				1.556	0.1277-02
n,3n		JENDL-3.2	6025					0.3278-06
n,g		JEF-2.2	6025	18.65	16.50	6.074	0.2415-02	0.2429-01
		ENDF/B-VI	6025	18.74	16.64	8.862	0.2415-02	0.2432-01
		JENDL-3.2	6025	18.71	16.58	8.460	0.2525-02	0.5464-01
n,p		JEF-2.2	6025				0.1108-01	0.2239-04
		JENDL-3.2	6025				0.1290-01	0.1931-04
n,d		JEF-2.2	6025				0.2147-02	0.2456-05
		JENDL-3.2	6025				0.5702-03	0.3192-06
n,t		JEF-2.2	6025				0.2101-04	0.1992-07
		JENDL-3.2	6025				0.1792-05	0.1321-07
n,He3		JEF-2.2	6025				0.2367-05	0.6542-08
		JENDL-3.2	6025				0.1629-09	0.5119-10
n,a	JEF-2.2	6025	0.6593-13	0.1305-12	0.2552-06	0.5198-02	0.1914-04	
	JENDL-3.2	6025				0.6223-02	0.3734-04	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
60-Nd-143	Total	JEF-2.2	6028	404.0	365.6	726.4	4.943	6.336
		ENDF/B-VI	6028	405.3	367.3	726.4	5.049	6.611
		JENDL-3.2	6028	405.5	366.7	695.8	4.778	6.412
		BROND-2	6043	416.3	377.6	750.8	5.017	6.236
	Elast.	JEF-2.2	6028	80.77	80.15	596.8	2.772	5.170
		ENDF/B-VI	6028	80.63	80.12	596.5	2.974	5.559
		JENDL-3.2	6028	80.27	79.63	567.3	2.969	5.385
		BROND-2	6043	92.98	92.33	621.5	3.024	5.285
	Incl.	JEF-2.2	6028				0.1858-01	1.062
		ENDF/B-VI	6028				0.6400-01	0.9556
		JENDL-3.2	6028				0.1553	0.9394
		BROND-2	6043				0.1000-02	0.8811
	n,2n	JEF-2.2	6028				2.137	0.2617-01
		ENDF/B-VI	6028				1.992	0.2893-01
		JENDL-3.2	6028				1.638	0.1972-01
		BROND-2	6043				1.991	0.2863-01
	n,3n	ENDF/B-VI	6028					0.4628-05
		JENDL-3.2	6028					0.3575-05
		BROND-2	6043					0.4576-05
	n,g	JEF-2.2	6028	323.3	285.4	129.6	0.1073-02	0.7748-01
		ENDF/B-VI	6028	324.7	287.2	129.9	0.3084-02	0.6679-01
		JENDL-3.2	6028	325.1	287.0	128.5	0.1000-02	0.6800-01
		BROND-2	6043	323.2	285.3	129.2	0.1100-02	0.4070-01
	n,p	JEF-2.2	6028				0.9781-02	0.2640-04
		ENDF/B-VI	6028				0.5674-02	0.1322-04
		JENDL-3.2	6028				0.9483-02	0.9666-05
	n,d	JEF-2.2	6028				0.1161-02	0.1680-05
		ENDF/B-VI	6028				0.1682-02	0.9901-06
		JENDL-3.2	6028				0.1119-02	0.5343-06
	n,t	JEF-2.2	6028				0.1064-03	0.1323-06
ENDF/B-VI		6028				0.2270-02	0.1403-05	
JENDL-3.2		6028				0.2133-03	0.1223-06	
n,He3	JEF-2.2	6028				0.2334-05	0.7065-08	
	ENDF/B-VI	6028					0.8144-08	
	JENDL-3.2	6028				0.3067-10	0.7252-10	
n,a	JEF-2.2	6028			0.6051-07	0.3899-02	0.2510-04	
	ENDF/B-VI	6028	0.1914-04	0.1704-04	0.4964-03	0.6316-02	0.2024-03	
	JENDL-3.2	6028	0.1745-01	0.1540-01	0.6763-02	0.3708-02	0.5918-03	
60-Nd-144	Total	JEF-2.2	6031	3.846	3.437	648.8	5.073	6.305
		ENDF/B-VI	6031	-0.9733	-1.383	609.1	4.685	6.058
		JENDL-3.2	6031	4.610	4.199	651.6	4.936	6.723
	Elast.	JEF-2.2	6031	0.2603	0.2601	644.7	2.977	5.057
		ENDF/B-VI	6031	-4.580	-4.581	603.8	3.324	5.071
		JENDL-3.2	6031	1.004	1.003	647.5	2.503	5.387

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
60-Nd-144	Inel.	JEF-2.2	6031				0.1000-09	1.215
		ENDF/B-VI	6031				1.359	0.9527
		JENDL-3.2	6031				0.7770	1.303
	n,2n	JEF-2.2	6031				2.079	0.8384-02
		JENDL-3.2	6031				1.632	0.5190-02
	n,3n	JENDL-3.2	6031					0.1953-04
	n,g	JEF-2.2	6031	3.586	3.177	4.075	0.9140-03	0.2605-01
		ENDF/B-VI	6031	3.622	3.204	5.367	0.1644-02	0.3057-01
		JENDL-3.2	6031	3.604	3.195	4.165	0.1028-02	0.2787-01
	n,p	JEF-2.2	6031				0.6641-02	0.1319-04
		JENDL-3.2	6031				0.9906-02	0.6665-05
	n,d	JEF-2.2	6031				0.6522-03	0.1410-05
		JENDL-3.2	6031				0.8362-03	0.6029-06
	n,t	JEF-2.2	6031				0.2394-04	0.2383-07
		JENDL-3.2	6031				0.1721-03	0.1967-06
	n,He3	JEF-2.2	6031				0.2866-05	0.3143-08
JENDL-3.2		6031				0.8230-13	0.2420-10	
n,a	JEF-2.2	6031				0.8385-02	0.2094-04	
	JENDL-3.2	6031				0.5038-02	0.1720-04	
60-Nd-145	Total	JEF-2.2	6034	60.24	55.41	797.6	5.069	6.340
		ENDF/B-VI	6034	59.52	54.78	797.2	5.069	6.812
		JENDL-3.2	6034	64.17	59.15	776.3	4.935	6.721
		BROND-2	6045	69.42	64.59	830.7	5.075	6.307
	Elast.	JEF-2.2	6034	18.34	18.30	566.4	2.978	4.580
		ENDF/B-VI	6034	17.39	17.36	566.5	2.857	5.185
		JENDL-3.2	6034	20.29	20.26	572.9	2.643	4.891
		BROND-2	6045	27.53	27.49	600.3	3.032	4.646
	Inel.	JEF-2.2	6034			0.4963-01	0.7500-10	1.646
		ENDF/B-VI	6034			0.6660-01	0.1500	1.493
		JENDL-3.2	6034			0.7678-01	0.1592	1.719
		BROND-2	6045			0.8752-01	0.1000-02	1.566
	n,2n	JEF-2.2	6034				2.081	0.3987-01
		ENDF/B-VI	6034				2.044	0.3666-01
		JENDL-3.2	6034				2.114	0.3452-01
		BROND-2	6045				2.044	0.3664-01
	n,3n	ENDF/B-VI	6034				0.2920-02	0.5362-04
		JENDL-3.2	6034				0.3017-02	0.4412-04
		BROND-2	6045				0.2920-02	0.5361-04
	n,g	JEF-2.2	6034	41.89	37.11	231.1	0.1002-02	0.7392-01
		ENDF/B-VI	6034	42.13	37.42	230.7	0.3882-02	0.9766-01
		JENDL-3.2	6034	43.86	38.87	203.3	0.1000-02	0.7452-01
		BROND-2	6045	41.88	37.10	230.4	0.1100-02	0.5594-01

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
60-Nd-145	n,p	JEF-2.2	6034				0.5847-02	0.1666-04
		ENDF/B-VI	6034				0.2877-02	0.4657-05
		JENDL-3.2	6034				0.6130-02	0.4233-05
	n,d	JEF-2.2	6034				0.5937-03	0.7951-06
		ENDF/B-VI	6034				0.9955-03	0.5568-06
		JENDL-3.2	6034				0.5812-03	0.3177-06
	n,t	JEF-2.2	6034				0.2286-04	0.2687-07
		ENDF/B-VI	6034				0.1482-02	0.8631-06
		JENDL-3.2	6034				0.1455-03	0.9656-07
	n,He3	JEF-2.2	6034				0.2630-05	0.2590-08
		ENDF/B-VI	6034					0.2138-08
	n,a	JEF-2.2	6034				0.2193-02	0.1100-04
		ENDF/B-VI	6034	0.1395-04	0.1242-04	0.3615-03	0.4210-02	0.9635-04
		JENDL-3.2	6034	0.8902-04	0.7877-04	0.4482-03	0.2275-02	0.3160-04
	60-Nd-146	Total	JEF-2.2	6037	5.786	5.624	167.6	5.072
ENDF/B-VI			6037	3.108	2.955	173.6	5.063	6.833
JENDL-3.2			6037	10.93	10.77	202.9	4.935	6.721
Elast.		JEF-2.2	6037	4.382	4.384	164.9	2.980	4.853
		ENDF/B-VI	6037	1.705	1.708	170.7	2.817	5.207
		JENDL-3.2	6037	9.529	9.528	200.2	2.474	5.134
Inel.		JEF-2.2	6037				0.1000-09	1.470
		ENDF/B-VI	6037				0.1736	1.566
		JENDL-3.2	6037				0.7526	1.544
n,2n		JEF-2.2	6037				2.084	0.1042-01
		ENDF/B-VI	6037				2.039	0.1121-01
		JENDL-3.2	6037				1.682	0.7146-02
n,3n		ENDF/B-VI	6037				0.3008-01	0.7457-04
		JENDL-3.2	6037				0.1338-01	0.3170-04
n,g		JEF-2.2	6037	1.401	1.241	2.662	0.8943-03	0.2924-01
		ENDF/B-VI	6037	1.403	1.246	2.889	0.1712-02	0.4641-01
		JENDL-3.2	6037	1.400	1.241	2.712	0.1206-02	0.3602-01
n,p		JEF-2.2	6037				0.3555-02	0.6333-05
		ENDF/B-VI	6037				0.8604-03	0.7599-06
		JENDL-3.2	6037				0.3469-02	0.1791-05
n,d		JEF-2.2	6037				0.3487-03	0.7857-06
		ENDF/B-VI	6037				0.5271-03	0.3214-06
		JENDL-3.2	6037				0.3354-03	0.4465-06
n,t		JEF-2.2	6037				0.2153-04	0.1976-07
		ENDF/B-VI	6037				0.4196-03	0.1934-06
		JENDL-3.2	6037				0.9441-04	0.1334-06
n,He3		JEF-2.2	6037				0.5526-06	0.5042-09
	ENDF/B-VI	6037					0.7009-09	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
60-Nd-146	n,a	JEF-2.2	6037				0.2796-02	0.7567-05
		ENDF/B-VI	6037	0.1196-04	0.1064-04	0.3092-03	0.2472-02	0.4577-04
		JENDL-3.2	6037				0.2747-02	0.3475-05
60-Nd-147	Total	JEF-2.2	6040	546.3	493.5	1137.	4.699	6.142
		ENDF/B-VI	6040	527.1	475.1	1109.	4.697	6.140
		JENDL-3.2	6040	510.8	459.3	1090.	4.935	6.717
	Elast.	JEF-2.2	6040	106.1	105.2	531.2	3.279	4.356
		ENDF/B-VI	6040	85.01	84.42	533.4	3.279	4.357
		JENDL-3.2	6040	79.54	78.90	460.4	2.644	4.533
	Inel.	JEF-2.2	6040			0.6492-01	1.416	1.711
		ENDF/B-VI	6040			0.6492-01	1.416	1.711
		JENDL-3.2	6040			0.2086	0.1408	2.025
	n,2n	JENDL-3.2	6040				2.001	0.5190-01
	n,3n	JENDL-3.2	6040				0.1388	0.8845-04
	n,g	JEF-2.2	6040	440.3	388.3	605.4	0.2594-02	0.7101-01
		ENDF/B-VI	6040	442.1	390.7	575.2	0.2600-02	0.7135-01
		JENDL-3.2	6040	431.2	380.3	629.6	0.1001-02	0.1041
	n,p	JEF-2.2	6040				0.2853-02	0.6466-05
		JENDL-3.2	6040				0.2772-02	0.1495-05
	n,d	JEF-2.2	6040				0.6624-03	0.9866-06
		JENDL-3.2	6040				0.3203-03	0.2303-06
	n,t	JEF-2.2	6040				0.6643-04	0.7958-07
JENDL-3.2		6040				0.1027-03	0.8701-07	
n,He3	JEF-2.2	6040				0.2847-05	0.6209-08	
n,a	JEF-2.2	6040			0.1639-07	0.1413-02	0.6246-05	
	JENDL-3.2	6040				0.1364-02	0.3370-05	
60-Nd-148	Total	JEF-2.2	6043	3.169	2.883	577.0	5.241	6.453
		ENDF/B-VI	6043	2.211	1.924	590.7	5.125	6.781
		JENDL-3.2	6043	7.015	6.731	649.7	4.935	6.721
	Elast.	JEF-2.2	6043	0.6655	0.6653	557.3	3.086	4.834
		ENDF/B-VI	6043	-0.2996	-0.3001	571.4	2.839	5.020
		JENDL-3.2	6043	4.520	4.519	635.1	2.399	4.906
	Inel.	JEF-2.2	6043				0.1000-09	1.570
		ENDF/B-VI	6043				0.1820	1.688
		JENDL-3.2	6043				0.7987	1.777
	n,2n	JEF-2.2	6043				2.147	0.1383-01
		ENDF/B-VI	6043				1.752	0.1226-01
		JENDL-3.2	6043				1.578	0.8726-02

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
60-Nd-148	n,3n	ENDF/B-VI	6043				0.3611	0.1422-03
		JENDL-3.2	6043				0.1477	0.6136-04
	n,g	JEF-2.2	6043	2.503	2.218	19.70	0.8738-03	0.3577-01
		ENDF/B-VI	6043	2.516	2.225	19.26	0.6255-03	0.5872-01
		JENDL-3.2	6043	2.494	2.210	14.56	0.1027-02	0.2756-01
	n,p	JEF-2.2	6043				0.2601-02	0.4227-05
		ENDF/B-VI	6043				0.3618-03	0.2818-06
		JENDL-3.2	6043				0.1980-02	0.9452-06
	n,d	JEF-2.2	6043				0.2590-03	0.5139-06
		ENDF/B-VI	6043				0.2469-03	0.1615-06
		JENDL-3.2	6043				0.5724-04	0.2083-06
	n,t	JEF-2.2	6043				0.1942-04	0.1841-07
		ENDF/B-VI	6043				0.2677-03	0.1247-06
		JENDL-3.2	6043				0.5239-04	0.1254-06
n,He3	JEF-2.2	6043				0.3672-06	0.3904-09	
	ENDF/B-VI	6043					0.6346-10	
n,a	JEF-2.2	6043				0.3908-02	0.1051-04	
	ENDF/B-VI	6043	0.8488-05	0.7555-05	0.2193-03	0.1383-02	0.2965-04	
	JENDL-3.2	6043				0.1993-02	0.1388-05	
60-Nd-150	Total	JEF-2.2	6049	5.944	5.809	185.0	5.246	6.817
		ENDF/B-VI	6049	5.083	4.945	201.6	5.230	6.829
		JENDL-3.2	6049	5.998	5.861	174.5	4.927	6.752
	Elast.	JEF-2.2	6049	4.757	4.758	169.4	2.729	4.661
		ENDF/B-VI	6049	3.882	3.873	185.8	2.719	4.668
		JENDL-3.2	6049	4.796	4.795	158.8	2.274	4.764
	Inel.	JEF-2.2	6049				0.3663	2.111
		ENDF/B-VI	6049				0.3663	2.111
		JENDL-3.2	6049				0.6444	1.951
	n,2n	JEF-2.2	6049				1.592	0.1217-01
		ENDF/B-VI	6049				1.592	0.1218-01
		JENDL-3.2	6049				1.800	0.7487-02
	n,3n	JEF-2.2	6049				0.5580	0.1757-03
		ENDF/B-VI	6049				0.5580	0.1757-03
		JENDL-3.2	6049				0.2043	0.6978-04
	n,g	JEF-2.2	6049	1.188	1.052	15.62	0.8763-03	0.3155-01
		ENDF/B-VI	6049	1.204	1.068	15.82	0.8763-03	0.3160-01
		JENDL-3.2	6049	1.202	1.064	15.74	0.1010-02	0.2813-01
	n,p	JEF-2.2	6049				0.2345-03	0.1817-06
		ENDF/B-VI	6049				0.2345-03	0.1818-06
		JENDL-3.2	6049				0.1145-02	0.5527-06

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
60-Nd-150	n,d	JEF-2.2	6049				0.2356-03	0.9914-07	
		ENDF/B-VI	6049				0.2356-03	0.9916-07	
		JENDL-3.2	6049				0.1301-04	0.1318-06	
	n,t	JEF-2.2	6049				0.3125-04	0.5911-07	
		ENDF/B-VI	6049				0.3125-04	0.5914-07	
		JENDL-3.2	6049				0.8147-05	0.5286-07	
	n,He3	JEF-2.2	6049				0.4537-06	0.3528-09	
	n,a	JEF-2.2	6049	0.5244-05	0.5517-05	0.1354-03	0.6409-03	0.1749-04	
		ENDF/B-VI	6049	0.5227-05	0.4653-05	0.1355-03	0.6409-03	0.1749-04	
		JENDL-3.2	6049				0.1638-02	0.8353-06	
	61-Pm-147	Total	JEF-2.2	6149	182.7	161.4	3305.	5.188	6.472
			ENDF/B-VI	6149	191.1	172.0	3379.	5.120	6.971
JENDL-3.2			6149	188.7	168.9	3330.	5.378	6.400	
BROND-2			6147	186.1	164.4	3262.	5.116	6.483	
Elast.		JEF-2.2	6149	1.966	1.964	1164.	3.045	4.521	
		ENDF/B-VI	6149	21.50	21.35	1253.	2.970	4.911	
		JENDL-3.2	6149	20.98	20.63	1126.	3.534	4.464	
		BROND-2	6147	2.909	2.856	1090.	2.987	4.532	
Inel.		JEF-2.2	6149			0.7981-02		1.755	
		ENDF/B-VI	6149			0.1372-01	0.8035-01	1.891	
		JENDL-3.2	6149			0.8506-02	0.1797	1.773	
		BROND-2	6147			0.1007-01	0.8035-01	1.766	
n,2n		JEF-2.2	6149				2.132	0.9497-02	
		ENDF/B-VI	6149				2.051	0.1060-01	
		JENDL-3.2	6149				1.651	0.6291-02	
		BROND-2	6147				2.051	0.1059-01	
n,3n		ENDF/B-VI	6149					0.4555-04	
		JENDL-3.2	6149					0.3114-04	
		BROND-2	6147					0.4554-04	
n,g		JEF-2.2	6149	180.7	159.4	2142.	0.9570-03	0.1878	
		ENDF/B-VI	6149	169.6	150.6	2126.	0.2241-02	0.1592	
		JENDL-3.2	6149	167.8	148.2	2203.	0.1001-02	0.1570	
		BROND-2	6147	183.2	161.6	2172.	0.1100-02	0.1720	
n,p		JEF-2.2	6149				0.6508-02	0.1855-04	
		ENDF/B-VI	6149				0.3745-02	0.8479-05	
		JENDL-3.2	6149				0.6286-02	0.5628-05	
n,d		JEF-2.2	6149				0.6805-03	0.1247-05	
		ENDF/B-VI	6149				0.4505-02	0.3450-05	
		JENDL-3.2	6149				0.9981-03	0.4836-06	
n,t		JEF-2.2	6149				0.2369-04	0.3007-07	
		ENDF/B-VI	6149				0.2254-02	0.1389-05	
		JENDL-3.2	6149				0.2213-03	0.1303-06	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
61-Pm-147	n,He3	JEF-2.2	6149				0.2802-05	0.2850-08	
		ENDF/B-VI	6149					0.2596-08	
		JENDL-3.2	6149				0.7031-12	0.1874-10	
	n,a	JEF-2.2	6149				0.2296-02	0.6961-05	
		ENDF/B-VI	6149	0.1405-04	0.1250-04	0.3645-03	0.3485-02	0.6334-04	
		JENDL-3.2	6149				0.2526-02	0.1201-04	
61-Pm-148	Total	JEF-2.2	6152	2008.	1780.	0.4001+05	4.704	6.173	
		ENDF/B-VI	6152	2011.	1786.	0.3996+05	4.702	6.175	
		JENDL-3.2	6152	2005.	1778.	2842.	4.777	6.428	
	Elast.	JEF-2.2	6152	5.135	5.138	144.0	3.288	3.681	
		ENDF/B-VI	6152	5.155	5.144	144.3	3.288	3.683	
		JENDL-3.2	6152	3.112	3.111	326.5	2.935	4.081	
	Inel.	JEF-2.2	6152				1.412	1.853	
		ENDF/B-VI	6152				1.412	1.853	
		JENDL-3.2	6152			0.8071-01	0.1182	2.154	
	n,2n	JENDL-3.2	6152				1.709	0.2310-01	
	n,3n	JENDL-3.2	6152				0.3592-02	0.4322-04	
	n,g	JEF-2.2	6152	2002.	1774.	0.3986+05	0.2644-02	0.6265	
		ENDF/B-VI	6152	2005.	1780.	0.3981+05	0.2643-02	0.6272	
		JENDL-3.2	6152	2001.	1774.	2515.	0.1001-02	0.1701	
	n,p	JENDL-3.2	6152				0.4789-02	0.4733-05	
	n,d	JENDL-3.2	6152				0.1444-02	0.6288-06	
	n,t	JENDL-3.2	6152				0.4235-03	0.2025-06	
	n,He3	JENDL-3.2	6152				0.3031-11	0.2484-10	
	n,a	JENDL-3.2	6152				0.1989-02	0.1623-04	
	61-Pm-148m	Total	JEF-2.2	6153	0.1071+05	0.1406+05	3810.	4.704	6.173
			ENDF/B-VI	6153	0.1082+05	0.1414+05	3810.	4.702	6.167
JENDL-3.2			6153	0.1067+05	0.1401+05	3986.	4.777	6.432	
Elast.		JEF-2.2	6153	35.74	63.21	156.8	3.288	3.681	
		ENDF/B-VI	6153	33.39	58.67	157.1	3.288	3.685	
		JENDL-3.2	6153	19.37	43.41	395.8	2.935	4.166	
Inel.		JEF-2.2	6153				1.412	1.853	
		ENDF/B-VI	6153				1.412	1.853	
		JENDL-3.2	6153			0.5282-02	0.1182	1.894	
n,2n		JENDL-3.2	6153				1.709	0.2310-01	
n,3n		JENDL-3.2	6153				0.3592-02	0.4322-04	

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
	n,g	JEF-2.2	6153	0.1068+05	0.1399+05	3639.	0.2644-02	0.6265
		ENDF/B-VI	6153	0.1079+05	0.1408+05	3653.	0.2650-02	0.6293
		JENDL-3.2	6153	0.1065+05	0.1397+05	3590.	0.1002-02	0.3472
	n,p	JENDL-3.2	6153				0.4789-02	0.4733-05
	n,d	JENDL-3.2	6153				0.1444-02	0.6288-06
	n,t	JENDL-3.2	6153				0.4235-03	0.2025-06
	n,He3	JENDL-3.2	6153				0.3031-11	0.2484-10
n,a	JENDL-3.2	6153				0.1989-02	0.1623-04	
61-Pm-149	Total	JEF-2.2	6155	1407.	1248.	998.4	4.709	6.198
		ENDF/B-VI	6155	1409.	1252.	1053.	4.707	6.205
		JENDL-3.2	6155	1405.	1247.	2122.	4.773	6.465
	Elast.	JEF-2.2	6155	5.379	6.369	200.1	3.325	3.964
		ENDF/B-VI	6155	5.182	5.170	197.4	3.326	3.962
		JENDL-3.2	6155	3.212	3.211	544.0	2.931	4.255
	Inel.	JEF-2.2	6155				1.379	1.619
		ENDF/B-VI	6155				1.379	1.619
		JENDL-3.2	6155				0.1826	2.104
	n,2n	JENDL-3.2	6155				1.591	0.8050-02
	n,3n	JENDL-3.2	6155				0.6016-01	0.6379-04
	n,g	JEF-2.2	6155	1402.	1242.	797.6	0.2261-02	0.6116
		ENDF/B-VI	6155	1404.	1246.	798.6	0.2260-02	0.6131
		JENDL-3.2	6155	1401.	1242.	1576.	0.1000-02	0.9754-01
	n,p	JEF-2.2	6155				0.3495-02	0.9617-05
		JENDL-3.2	6155				0.3550-02	0.2293-05
	n,d	JEF-2.2	6155				0.7274-03	0.1390-05
		JENDL-3.2	6155				0.6258-03	0.3639-06
	n,t	JEF-2.2	6155				0.7004-04	0.8721-07
		JENDL-3.2	6155				0.1866-03	0.1260-06
n,He3	JEF-2.2	6155				0.2904-05	0.7707-08	
n,a	JEF-2.2	6155	0.1554-13	0.3076-13	0.6019-07	0.1432-02	0.4134-05	
	JENDL-3.2	6155				0.1526-02	0.3388-05	
61-Pm-151	Total	JEF-2.2	6161	706.4	627.9	2144.	4.720	6.256
		ENDF/B-VI	6161	708.4	630.0	2318.	4.718	6.261
Elast.	JEF-2.2	6161	5.485	6.960	138.8	3.285	4.607	
	ENDF/B-VI	6161	5.227	5.216	135.4	3.283	4.615	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
61-Pm-151	Incl.	JEF-2.2	6161				1.432	1.646
		ENDF/B-VI	6161				1.432	1.646
	n,g	JEF-2.2	6161	700.8	620.9	2005.	0.2321-02	0.1913-02
		ENDF/B-VI	6161	701.6	622.8	2010.	0.2321-02	0.1918-02
	n,p	JEF-2.2	6161				0.2000-02	0.4924-05
	n,d	JEF-2.2	6161				0.5360-03	0.1055-05
	n,t	JEF-2.2	6161				0.5575-04	0.6463-07
	n,He3	JEF-2.2	6161				0.6304-06	0.7779-09
n,a	JEF-2.2	6161	0.8913-14	0.1765-13	0.3454-07	0.8576-03	0.2194-05	
62-Sm- 0	Total	BROND-2	6200	5694.	8544.	3368.	5.097	6.795
	Elast.	BROND-2	6200	28.69	57.36	1953.	2.908	4.846
	Incl.	BROND-2	6200			0.1055	0.3532	1.818
	n,2n	BROND-2	6200				1.835	0.8987-02
	n,3n	BROND-2	6200					0.2367-04
	n,g	BROND-2	6200	5666.	8486.	1415.	0.1093-02	0.1211
62-Sm-144	Total	JEF-2.2	6225	5.474	5.590	246.1	7.862	6.756
		ENDF/B-VI	6225	6.626	8.906	286.9	7.862	6.762
		JENDL-3.2	6225	2.403	2.216	80.15	5.237	6.700
		BROND-2	6244	6.089	6.214	241.1	5.035	6.750
	Elast.	JEF-2.2	6225	4.769	4.936	226.9	5.972	5.866
		ENDF/B-VI	6225	4.727	4.736	257.6	6.030	5.869
		JENDL-3.2	6225	0.7615	0.7615	78.55	2.931	5.898
		BROND-2	6244	5.332	5.331	238.0	2.929	5.834
	Incl.	JEF-2.2	6225				1.860	0.6749
		ENDF/B-VI	6225				1.860	0.6749
		JENDL-3.2	6225				0.8537	0.7141
		BROND-2	6244				0.7100	0.8731
	n,2n	JENDL-3.2	6225				1.386	0.5949-03
		BROND-2	6244				1.400	0.6879-03
	n,3n	JENDL-3.2	6225					0.1452-07
	n,g	JEF-2.2	6225	0.6966	0.6168	18.84	0.2070-02	0.2117
		ENDF/B-VI	6225	1.901	4.162	29.35	0.2070-02	0.2152
		JENDL-3.2	6225	1.641	1.454	1.605	0.1586-02	0.8578-01
		BROND-2	6244	0.7008	0.6210	2.911	0.1100-02	0.3212-01

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
62-Sm-144	n,p	JEF-2.2	6225			0.1081-06	0.1631-01	0.4171-04
		JENDL-3.2	6225				0.2363-01	0.9470-04
	n,d	JEF-2.2	6225				0.2708-02	0.3385-05
		JENDL-3.2	6225				0.1187-02	0.5817-06
	n,t	JEF-2.2	6225				0.3199-04	0.3180-07
		JENDL-3.2	6225				0.2830-05	0.1634-07
	n,He3	JEF-2.2	6225				0.2503-05	0.8336-08
		JENDL-3.2	6225				0.1986-07	0.3467-09
	n,a	JEF-2.2	6225			0.9164-07	0.9074-02	0.3579-04
		JENDL-3.2	6225				0.9481-02	0.2028-03
62-Sm-147	Total	JEF-2.2	6234	97.28	90.74	1639.	5.049	6.927
		ENDF/B-VI	6234	96.23	89.86	1660.	5.103	6.937
		JENDL-3.2	6234	59.09	52.20	1524.	5.313	6.961
		BROND-2	6247	58.59	51.82	1526.	5.118	6.817
	Elast.	JEF-2.2	6234	40.02	39.99	844.9	2.968	4.767
		ENDF/B-VI	6234	39.07	38.98	870.6	3.012	4.934
		JENDL-3.2	6234	1.060	1.052	744.6	3.558	4.964
		BROND-2	6247	1.922	1.902	789.7	3.042	4.990
	Inel.	JEF-2.2	6234				0.1000-09	1.927
		ENDF/B-VI	6234				0.7454-01	1.805
		JENDL-3.2	6234				0.3639	1.864
		BROND-2	6247				0.7454-01	1.616
	n,2n	JEF-2.2	6234				2.062	0.2707-01
		ENDF/B-VI	6234				2.003	0.2296-01
		JENDL-3.2	6234				1.364	0.8776-02
		BROND-2	6247				2.002	0.2295-01
	n,3n	ENDF/B-VI	6234					0.2000-04
		JENDL-3.2	6234					0.5481-05
		BROND-2	6247					0.2000-04
	n,g	JEF-2.2	6234	57.24	50.76	793.6	0.1196-02	0.2077
		ENDF/B-VI	6234	57.48	50.89	788.9	0.4664-02	0.1757
		JENDL-3.2	6234	58.03	51.15	779.3	0.1000-02	0.1222
		BROND-2	6247	56.67	49.92	736.3	0.1100-02	0.1867
	n,p	JEF-2.2	6234				0.1266-01	0.4723-04
		ENDF/B-VI	6234	0.9335-06	0.8294-06	0.1945-04	0.7002-02	0.2265-04
		JENDL-3.2	6234				0.1208-01	0.1587-04
	n,d	JEF-2.2	6234				0.1231-02	0.1928-05
		ENDF/B-VI	6234				0.1925-02	0.1207-05
		JENDL-3.2	6234				0.5335-02	0.2430-05
	n,t	JEF-2.2	6234				0.2711-04	0.3457-07
ENDF/B-VI		6234				0.2058-02	0.1289-05	
JENDL-3.2		6234				0.6630-03	0.3837-06	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
62-Sm-147	n,He3	JEF-2.2	6234				0.3211-05	0.3971-08
		ENDF/B-VI	6234					0.1348-07
		JENDL-3.2	6234				0.2772-08	0.4232-09
	n,a	JEF-2.2	6234				0.4519-02	0.3405-04
		ENDF/B-VI	6234	0.6228-03	0.1183-02	0.8829-02	0.7153-02	0.2493-03
		JENDL-3.2	6234	0.5808-03	0.5117-03	0.7442-02	0.4653-02	0.6299-04
62-Sm-148	Total	JEF-2.2	6237	7.855	7.565	372.4	4.704	6.172
		ENDF/B-VI	6237	7.982	8.234	376.0	4.702	6.173
		JENDL-3.2	6237	3.415	3.139	501.9	5.309	6.774
		BROND-2	6248	6.184	5.911	586.7	5.035	6.754
	Elast.	JEF-2.2	6237	5.141	5.144	344.3	3.365	4.919
		JENDL-3.2	6237	1.000	0.9997	457.2	2.885	5.285
		BROND-2	6248	3.780	3.782	549.2	2.901	5.329
	Inel.	JEF-2.2	6237				1.327	1.056
		ENDF/B-VI	6237				1.327	1.056
		JENDL-3.2	6237				0.7379	1.396
		BROND-2	6248				0.3678	1.315
	n,2n	JENDL-3.2	6237				1.669	0.4385-02
		BROND-2	6248				1.770	0.4944-02
	n,3n	JENDL-3.2	6237					0.1614-04
		BROND-2	6248					0.1969-04
	n,g	JEF-2.2	6237	2.703	2.395	26.87	0.2421-02	0.1945
		ENDF/B-VI	6237	2.706	2.402	26.93	0.2421-02	0.1946
		JENDL-3.2	6237	2.414	2.138	44.74	0.1113-02	0.8453-01
		BROND-2	6248	2.403	2.130	37.46	0.1100-02	0.9677-01
	n,p	JEF-2.2	6237				0.7692-02	0.1596-04
		JENDL-3.2	6237				0.6643-02	0.4906-05
	n,d	JEF-2.2	6237				0.1059-02	0.2150-05
		JENDL-3.2	6237				0.1287-02	0.9078-06
	n,t	JEF-2.2	6237				0.1929-04	0.2092-07
		JENDL-3.2	6237				0.1187-03	0.1560-06
	n,He3	JEF-2.2	6237				0.2370-05	0.9534-08
		JENDL-3.2	6237				0.1060-11	0.4570-10
	n,a	JEF-2.2	6237			0.2779-07	0.3336-02	0.1070-04
		JENDL-3.2	6237				0.3475-02	0.1964-04
	62-Sm-149	Total	JEF-2.2	6240	0.4066+05	0.6199+05	3969.	5.032
ENDF/B-VI			6240	0.3987+05	0.6036+05	3819.	5.201	7.033
JENDL-3.2			6240	0.4073+05	0.6094+05	4071.	5.320	6.998
BROND-2			6249	0.4070+05	0.6141+05	4035.	5.201	6.726

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
62-Sm-149	Elast.	JEF-2.2	6240	179.0	397.8	484.8	2.961	4.370
		ENDF/B-VI	6240	139.1	346.4	560.4	3.067	4.413
		JENDL-3.2	6240	178.8	376.0	578.2	3.080	4.574
		BROND-2	6249	172.8	380.4	582.0	3.067	4.654
	Inel.	JEF-2.2	6240			0.7650	0.1000-09	2.301
		ENDF/B-VI	6240			0.3862	0.3000	2.395
		JENDL-3.2	6240			0.9747	0.3795	2.171
		BROND-2	6249			0.7457	0.3000	1.767
	n,2n	JEF-2.2	6240				2.060	0.4139-01
		ENDF/B-VI	6240				1.800	0.1509-01
		JENDL-3.2	6240				1.845	0.2798-01
		BROND-2	6249				1.800	0.1508-01
	n,3n	ENDF/B-VI	6240					0.1740-04
		JENDL-3.2	6240					0.1837-04
		BROND-2	6249					0.1738-04
	n,g	JEF-2.2	6240	0.4048+05	0.6160+05	3484.	0.1016-02	0.2758
		ENDF/B-VI	6240	0.3973+05	0.6001+05	3258.	0.1659-02	0.2017
		JENDL-3.2	6240	0.4055+05	0.6056+05	3492.	0.1006-02	0.2227
		BROND-2	6249	0.4053+05	0.6103+05	3453.	0.1050-02	0.2860
	n,p	JEF-2.2	6240				0.7373-02	0.2140-04
		ENDF/B-VI	6240				0.1600-01	0.1639-03
		JENDL-3.2	6240				0.6871-02	0.5791-05
		BROND-2	6249				0.1600-01	0.1638-03
	n,d	JEF-2.2	6240				0.7490-03	0.1123-05
		JENDL-3.2	6240				0.3061-02	0.1509-05
	n,t	JEF-2.2	6240				0.2428-04	0.2844-07
		JENDL-3.2	6240				0.4757-03	0.3255-06
	n,He3	JEF-2.2	6240				0.2796-05	0.2945-08
JENDL-3.2		6240				0.6249-11	0.6930-10	
n,a	JEF-2.2	6240				0.2934-02	0.1778-04	
	ENDF/B-VI	6240				0.1600-01	0.1639-03	
	JENDL-3.2	6240	0.3117-01	0.4645-01	0.2759-02	0.2801-02	0.3554-04	
	BROND-2	6249				0.1600-01	0.1638-03	
62-Sm-150	Total	JEF-2.2	6243	124.7	112.6	840.1	4.714	6.231
		ENDF/B-VI	6243	122.9	110.9	829.8	5.138	6.830
		JENDL-3.2	6243	117.0	104.0	799.2	5.345	6.808
		BROND-2	6250	118.3	105.1	817.9	5.150	6.748
	Elast.	JEF-2.2	6243	21.26	21.19	501.3	3.357	4.665
		ENDF/B-VI	6243	18.97	18.84	491.8	3.056	4.971
		JENDL-3.2	6243	8.369	8.318	475.0	2.608	4.909
		BROND-2	6250	8.855	8.808	486.4	2.930	4.846

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
62-Sm-150	Inel.	JEF-2.2	6243				1.349	1.423
		ENDF/B-VI	6243				0.3000	1.713
		JENDL-3.2	6243				0.9546	1.774
		BROND-2	6250				0.4490	1.776
	n,2n	ENDF/B-VI	6243				1.780	0.4353-02
		JENDL-3.2	6243				1.770	0.4244-02
		BROND-2	6250				1.770	0.4796-02
	n,3n	JENDL-3.2	6243					0.3792-04
		BROND-2	6250					0.2619-04
	n,g	JEF-2.2	6243	103.4	91.44	338.8	0.2329-02	0.1427
		ENDF/B-VI	6243	103.9	92.09	338.0	0.2300-02	0.1421
		JENDL-3.2	6243	108.6	95.65	324.2	0.1330-02	0.1193
		BROND-2	6250	109.4	96.31	331.4	0.1100-02	0.1146
	n,p	JEF-2.2	6243				0.5060-02	0.9750-05
		JENDL-3.2	6243				0.5379-02	0.2906-05
	n,d	JEF-2.2	6243				0.7835-03	0.1639-05
		JENDL-3.2	6243				0.2258-03	0.2808-06
	n,t	JEF-2.2	6243				0.1513-04	0.1579-07
		JENDL-3.2	6243				0.4443-04	0.8494-07
	n,He3	JEF-2.2	6243				0.2234-05	0.7972-08
n,a	JEF-2.2	6243	0.2933-13	0.5808-13	0.1136-06	0.2748-02	0.7710-05	
	JENDL-3.2	6243				0.2928-02	0.5720-05	
62-Sm-151	Total	JEF-2.2	6246	0.1523+05	0.1251+05	3765.	5.001	6.780
		ENDF/B-VI	6246	0.1529+05	0.1261+05	3726.	5.287	6.903
		JENDL-3.2	6246	0.1518+05	0.1248+05	3752.	5.366	6.828
		BROND-2	6251	0.1519+05	0.1248+05	3758.	5.297	6.574
	Elast.	JEF-2.2	6246	39.28	32.41	297.4	2.777	3.819
		ENDF/B-VI	6246	43.49	36.35	267.4	3.022	4.217
		JENDL-3.2	6246	50.40	42.63	343.4	3.049	4.436
		BROND-2	6251	63.85	54.00	258.3	3.032	4.219
	Inel.	JEF-2.2	6246			3.431	0.9501-02	2.763
		ENDF/B-VI	6246			9.018	0.1457	2.297
		JENDL-3.2	6246			1.490	0.5904	2.240
		BROND-2	6251			3.301	0.1457	2.040
	n,2n	JEF-2.2	6246				2.208	0.2884-01
		ENDF/B-VI	6246				2.104	0.5025-01
		JENDL-3.2	6246				1.711	0.2549-01
		BROND-2	6251				2.104	0.5023-01
	n,3n	ENDF/B-VI	6246				0.4164-02	0.6342-04
		JENDL-3.2	6246				0.1371-02	0.1884-04
		BROND-2	6251				0.4164-02	0.6340-04

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
62-Sm-151	n,g	JEF-2.2	6246	0.1519+05	0.1248+05	3465.	0.1628-02	0.1676
		ENDF/B-VI	6246	0.1525+05	0.1258+05	3449.	0.3446-02	0.3386
		JENDL-3.2	6246	0.1513+05	0.1244+05	3407.	0.1000-02	0.1238
		BROND-2	6251	0.1512+05	0.1243+05	3497.	0.1100-02	0.2626
	n,p	JEF-2.2	6246				0.4051-02	0.1199-04
		ENDF/B-VI	6246				0.2507-02	0.4739-05
		JENDL-3.2	6246				0.3985-02	0.3078-05
		BROND-2	6251				0.2507-02	0.4737-05
	n,d	JEF-2.2	6246				0.7458-03	0.1149-05
		ENDF/B-VI	6246				0.5882-03	0.3171-06
		JENDL-3.2	6246				0.1065-02	0.6692-06
		BROND-2	6251				0.5882-03	0.3170-06
	n,t	JEF-2.2	6246				0.7320-04	0.8836-07
		ENDF/B-VI	6246				0.1023-02	0.5668-06
		JENDL-3.2	6246				0.2212-03	0.2093-06
		BROND-2	6251				0.1023-02	0.5666-06
	n,He3	JEF-2.2	6246				0.2960-05	0.9729-08
		ENDF/B-VI	6246					0.7148-09
		BROND-2	6251					0.7146-09
	n,a	JEF-2.2	6246			0.2097-07	0.1748-02	0.7821-05
		ENDF/B-VI	6246	0.1074-04	0.9564-05	0.2791-03	0.2512-02	0.6148-04
		JENDL-3.2	6246				0.1668-02	0.2871-05
		BROND-2	6251	0.1078-04	0.1134-04	0.2788-03	0.2512-02	0.6146-04
	62-Sm-152	Total	JEF-2.2	6249	209.1	186.3	9048.	5.015
ENDF/B-VI			6249	210.3	187.6	9055.	5.106	6.751
JENDL-3.2			6249	207.3	184.3	8740.	5.381	6.829
BROND-2			6252	209.2	186.4	8949.	5.018	6.888
Elast.		JEF-2.2	6249	2.946	3.002	6070.	2.952	4.693
		ENDF/B-VI	6249	3.121	3.183	6074.	2.626	4.502
		JENDL-3.2	6249	0.9502	0.9841	5977.	2.256	4.474
		BROND-2	6252	3.016	3.072	5985.	2.788	4.592
Inel.		JEF-2.2	6249				0.1000-09	2.243
		ENDF/B-VI	6249				0.3471	2.151
		JENDL-3.2	6249				1.352	2.248
		BROND-2	6252				0.4310	2.201
n,2n		JEF-2.2	6249				2.056	0.7460-02
		ENDF/B-VI	6249				2.127	0.6478-02
		JENDL-3.2	6249				1.770	0.4026-02
		BROND-2	6252				1.800	0.4048-02
n,3n		ENDF/B-VI	6249				0.6932-05	0.5779-04
		JENDL-3.2	6249					0.3381-04
		BROND-2	6252					0.2746-04

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
62-Sm-152	n,g	JEF-2.2	6249	206.2	183.3	2977.	0.9296-03	0.9099-01	
		ENDF/B-VI	6249	207.2	184.4	2981.	0.2566-02	0.9130-01	
		JENDL-3.2	6249	206.3	183.3	2763.	0.1148-02	0.9940-01	
		BROND-2	6252	206.2	183.3	2964.	0.1100-02	0.8851-01	
	n,p	JEF-2.2	6249				0.3252-02	0.5223-05	
		ENDF/B-VI	6249				0.7971-03	0.7659-06	
		JENDL-3.2	6249				0.2902-02	0.1600-05	
	n,d	JEF-2.2	6249				0.1091-02	0.9947-06	
		ENDF/B-VI	6249				0.4741-03	0.2321-06	
		JENDL-3.2	6249				0.1364-03	0.2939-06	
	n,t	JEF-2.2	6249				0.2068-04	0.1844-07	
		ENDF/B-VI	6249				0.2655-04	0.6450-07	
		JENDL-3.2	6249				0.3584-05	0.3454-07	
	n,He3	JEF-2.2	6249				0.3533-06	0.3091-09	
		ENDF/B-VI	6249					0.2222-09	
	n,a	JEF-2.2	6249				0.1341-02	0.3431-05	
		ENDF/B-VI	6249	0.1032-04	0.9186-05	0.2664-03	0.1331-02	0.3495-04	
		JENDL-3.2	6249				0.1626-02	0.1060-05	
	62-Sm-153	Total	JEF-2.2	6252	335.8	299.1	3115.	4.730	6.313
			ENDF/B-VI	6252	336.5	302.4	6144.	4.728	6.316
			JENDL-3.2	6252	427.2	380.5	1107.	5.402	6.844
Elast.		JEF-2.2	6252	5.449	6.303	247.8	3.287	4.178	
		ENDF/B-VI	6252	5.275	5.264	237.8	3.286	4.182	
		JENDL-3.2	6252	6.725	6.723	383.4	3.047	4.497	
Inel.		JEF-2.2	6252			2.594	1.439	2.133	
		ENDF/B-VI	6252			2.594	1.439	2.133	
		JENDL-3.2	6252			2.252	0.6982	2.296	
n,2n		JENDL-3.2	6252				1.651	0.1865-01	
n,3n		JENDL-3.2	6252					0.7446-05	
n,g		JEF-2.2	6252	330.4	292.8	2864.	0.2780-02	0.5935-03	
		ENDF/B-VI	6252	330.9	293.7	2871.	0.2780-02	0.5945-03	
		JENDL-3.2	6252	420.3	372.5	720.7	0.1000-02	0.3209-01	
n,p		JEF-2.2	6252				0.2354-02	0.6347-05	
		JENDL-3.2	6252				0.2361-02	0.1605-05	
n,d		JEF-2.2	6252				0.2019-03	0.3420-06	
		JENDL-3.2	6252				0.1177-02	0.8218-06	
n,t		JEF-2.2	6252				0.5861-04	0.6620-07	
		JENDL-3.2	6252				0.9029-04	0.1797-06	
n,He3		JEF-2.2	6252				0.7248-06	0.1089-08	

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
62-Sm-153	n,a	JEF-2.2 JENDL-3.2	6252 6252	0.7940-14	0.1573-13	0.3078-07	0.1020-02 0.7688-03	0.2921-05 0.4827-06
62-Sm-154	Total	JEF-2.2	6255	19.45	18.49	268.9	4.735	6.339
		ENDF/B-VI	6255	8.781	8.166	229.6	4.733	6.342
		JENDL-3.2	6255	19.43	18.47	262.5	5.419	6.860
		BROND-2	6254	18.19	17.39	258.2	5.150	6.776
	Elast.	JEF-2.2	6255	11.04	11.04	235.7	3.340	4.733
		ENDF/B-VI	6255	3.281	3.274	195.9	3.340	4.734
		JENDL-3.2	6255	11.03	11.03	226.4	2.149	4.556
		BROND-2	6254	11.14	11.14	222.0	2.858	4.790
	Inel.	JEF-2.2	6255			0.1154-01	1.391	1.546
		ENDF/B-VI	6255			0.1154-01	1.391	1.546
		JENDL-3.2	6255			0.1448-01	1.379	2.254
		BROND-2	6254			0.1126-01	0.4310	1.934
	n,2n	JENDL-3.2	6255				1.885	0.5230-02
		BROND-2	6254				1.860	0.5642-02
	n,3n	JENDL-3.2	6255					0.2708-04
		BROND-2	6254					0.2715-04
	n,g	JEF-2.2	6255	8.408	7.447	33.26	0.2313-02	0.6002-01
		ENDF/B-VI	6255	5.516	4.896	33.65	0.2313-02	0.6009-01
		JENDL-3.2	6255	8.397	7.437	36.09	0.1069-02	0.4451-01
		BROND-2	6254	7.050	6.244	36.21	0.1100-02	0.4168-01
	n,p	JEF-2.2	6255				0.2652-02	0.5123-05
		JENDL-3.2	6255				0.1682-02	0.8379-06
	n,d	JEF-2.2	6255				0.1593-02	0.1397-05
		JENDL-3.2	6255				0.9100-04	0.2226-06
n,t	JEF-2.2	6255				0.9495-05	0.9015-08	
	JENDL-3.2	6255				0.6578-05	0.5796-07	
n,He3	JEF-2.2	6255				0.5520-06	0.5815-09	
n,a	JEF-2.2	6255	0.1137-13	0.2253-13	0.4410-07	0.8916-03	0.2233-05	
	JENDL-3.2	6255				0.6006-03	0.3107-06	
63-Eu- 0	Total	JENDL-3.2	6300	4554.	3648.	2433.	5.200	6.859
	Elast.	JENDL-3.2	6300	6.940	6.623	213.6	2.870	4.712
	Inel.	JENDL-3.2	6300			0.1146	0.5489	1.822
	n,2n	JENDL-3.2	6300				1.765	0.3140-02
	n,3n	JENDL-3.2	6300					0.6577-05

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
63-Eu- 0	n,g	JENDL-3.2	6300	4547.	3642.	2219.	0.1006-02	0.3195
	n,p	JENDL-3.2	6300				0.6554-02	0.2698-04
	n,a	JENDL-3.2	6300	0.4621-05	0.3731-05	0.3154-05	0.5219-02	0.3960-04
63-Eu-151	Total	JEF-2.2	6325	9180.	7322.	3604.	5.130	7.034
		ENDF/B-VI	6325	9195.	7352.	3626.	5.154	6.795
		JENDL-3.2	6325	9174.	7323.	3338.	5.200	6.845
	Elast.	JEF-2.2	6325	3.392	2.819	251.5	2.847	4.446
		ENDF/B-VI	6325	6.297	5.735	258.4	2.760	4.310
		JENDL-3.2	6325	3.202	2.680	232.4	2.876	4.860
	Inel.	JEF-2.2	6325			0.8835	0.6273-01	2.122
		ENDF/B-VI	6325			0.8759	0.4234	2.127
		JENDL-3.2	6325			0.2176	0.5923	1.598
	n,2n	JEF-2.2	6325				2.174	0.4214-02
		ENDF/B-VI	6325				1.928	0.4655-02
		JENDL-3.2	6325				1.710	0.3790-02
	n,3n	JEF-2.2	6325					0.4746-05
		ENDF/B-VI	6325					0.1103-04
		JENDL-3.2	6325					0.1011-04
	n,g	JEF-2.2	6325	9176.	7319.	3351.	0.1400-02	0.4614
		ENDF/B-VI	6325	9189.	7346.	3366.	0.1649-02	0.3573
		JENDL-3.2	6325	9170.	7320.	3105.	0.1013-02	0.3807
	n,p	JEF-2.2	6325	0.9890-13	0.1959-12	0.3833-06	0.2755-01	0.8918-04
		ENDF/B-VI	6325			0.4312-07	0.2755-01	0.8586-04
		JENDL-3.2	6325				0.7479-02	0.3960-04
	n,d	JEF-2.2	6325				0.5460-02	0.4679-05
		ENDF/B-VI	6325				0.5460-02	0.4677-05
	n,t	JEF-2.2	6325				0.2198-02	0.1361-05
		ENDF/B-VI	6325				0.2198-02	0.1360-05
	n,He3	JEF-2.2	6325				0.5569-05	0.4644-07
		ENDF/B-VI	6325				0.5569-05	0.4644-07
n,a	JEF-2.2	6325	0.9988-12	0.1978-11	0.3871-05	0.9137-02	0.1276-03	
	ENDF/B-VI	6325	0.1000-05	0.1000-05	0.1233-04	0.9137-02	0.8907-04	
	JENDL-3.2	6325	0.8774-05	0.7034-05	0.3736-05	0.8881-02	0.7996-04	
63-Eu-152	Total	JEF-2.2	6328	2315.	1842.	3902.	4.934	6.937
		ENDF/B-VI	6328	0.1285+05	0.1056+05	2460.	4.934	6.919
		JENDL-3.2	6328	0.1278+05	0.1048+05	2669.	5.064	6.547

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
63-Eu-152	Elast.	JEF-2.2	6328	5.361	5.288	224.9	2.650	3.999
		ENDF/B-VI	6328	23.48	21.05	136.4	2.650	3.984
		JENDL-3.2	6328	29.09	26.02	502.9	3.295	4.241
	Incl.	JEF-2.2	6328			0.5415-02	0.2177-01	2.487
		ENDF/B-VI	6328			0.5415-02	0.2177-01	2.486
		JENDL-3.2	6328			0.2212-01	0.2575	1.765
	n,2n	JEF-2.2	6328				2.215	0.1425-01
		ENDF/B-VI	6328				2.215	0.1425-01
		JENDL-3.2	6328				1.498	0.1068-01
	n,3n	JEF-2.2	6328					0.1504-04
		ENDF/B-VI	6328					0.1504-04
		JENDL-3.2	6328					0.1884-04
	n,g	JEF-2.2	6328	2310.	1837.	3677.	0.4100-02	0.4342
		ENDF/B-VI	6328	0.1282+05	0.1053+05	2323.	0.4100-02	0.4348
		JENDL-3.2	6328	0.1276+05	0.1046+05	2166.	0.1001-02	0.5267
	n,p	JEF-2.2	6328	0.1508-05	0.1508-05	0.1853-04	0.2675-01	0.2475-03
		ENDF/B-VI	6328	0.1503-05	0.1332-05	0.1853-04	0.2675-01	0.2474-03
		JENDL-3.2	6328				0.6593-02	0.1277-04
	n,d	JEF-2.2	6328				0.3348-02	0.2474-05
		ENDF/B-VI	6328				0.3348-02	0.2473-05
JENDL-3.2		6328				0.2213-02	0.1004-05	
n,t	JEF-2.2	6328				0.5316-02	0.4382-05	
	ENDF/B-VI	6328				0.5315-02	0.4380-05	
	JENDL-3.2	6328				0.4401-03	0.2243-06	
n,He3	JEF-2.2	6328				0.3308-05	0.1842-07	
	ENDF/B-VI	6328				0.3308-05	0.1842-07	
	JENDL-3.2	6328				0.9313-12	0.4137-10	
n,a	JEF-2.2	6328	0.1106-11	0.2190-11	0.4286-05	0.7735-02	0.1652-03	
	ENDF/B-VI	6328	0.1084-11	0.2168-11	0.4286-05	0.7735-02	0.1651-03	
	JENDL-3.2	6328				0.2418-02	0.9835-05	
63-Eu-153	Total	JEF-2.2	6331	306.7	263.5	1644.	5.163	6.612
		ENDF/B-VI	6331	321.5	278.7	1699.	5.221	6.618
		JENDL-3.2	6331	323.1	283.7	1605.	5.200	6.872
		BROND-2	6353	322.4	283.0	1647.	5.170	6.575
	Elast.	JEF-2.2	6331	6.778	6.699	195.6	2.990	3.950
		ENDF/B-VI	6331	9.043	8.981	199.4	2.686	3.822
		JENDL-3.2	6331	10.36	10.23	196.3	2.865	4.577
		BROND-2	6353	9.559	9.423	181.2	2.990	3.948
	Incl.	JEF-2.2	6331			0.4300-01	0.1435	2.382
		ENDF/B-VI	6331			0.2284-01	0.5554	2.562
		JENDL-3.2	6331			0.2044-01	0.5092	2.028
		BROND-2	6353			0.4300-01	0.1435	2.382

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
63-Eu-153	n,2n	JEF-2.2	6331				2.017	0.6057-02
		ENDF/B-VI	6331				1.975	0.3353-02
		JENDL-3.2	6331				1.815	0.2545-02
		BROND-2	6353				2.017	0.6057-02
	n,3n	JEF-2.2	6331					0.1300-04
		ENDF/B-VI	6331					0.8232-05
		JENDL-3.2	6331					0.3343-05
		BROND-2	6353					0.1300-04
	n,g	JEF-2.2	6331	299.9	256.8	1448.	0.1300-02	0.2743
		ENDF/B-VI	6331	312.5	269.7	1499.	0.1275-02	0.2374
		JENDL-3.2	6331	312.7	273.5	1408.	0.1000-02	0.2634
		BROND-2	6353	312.8	273.5	1465.	0.1300-02	0.2386
	n,p	JEF-2.2	6331			0.5190-07	0.4930-02	0.1264-04
		ENDF/B-VI	6331			0.5190-07	0.4930-02	0.1263-04
		JENDL-3.2	6331				0.5709-02	0.1542-04
		BROND-2	6353			0.5190-07	0.4930-02	0.1264-04
	n,d	JEF-2.2	6331				0.2487-02	0.1929-05
		ENDF/B-VI	6331				0.2487-02	0.1928-05
		BROND-2	6353				0.2487-02	0.1929-05
	n,t	JEF-2.2	6331				0.8172-03	0.4681-06
		ENDF/B-VI	6331				0.8172-03	0.4680-06
		BROND-2	6353				0.8172-03	0.4681-06
	n,He3	JEF-2.2	6331				0.2286-05	0.8866-08
		ENDF/B-VI	6331				0.2286-05	0.8865-08
		BROND-2	6353				0.2286-05	0.8866-08
	n,a	JEF-2.2	6331	0.9650-06	0.9006-06	0.1537-04	0.8400-02	0.8001-04
		ENDF/B-VI	6331	0.1000-07	0.1000-07	0.1237-06	0.8400-02	0.2610-04
		JENDL-3.2	6331	0.7136-06	0.6236-06	0.2600-05	0.1865-02	0.2604-05
BROND-2		6353	0.9650-06	0.9006-06	0.1537-04	0.8400-02	0.8001-04	
63-Eu-154	Total	JEF-2.2	6334	1508.	1202.	2746.	4.968	6.580
		ENDF/B-VI	6334	1364.	1486.	1510.	4.968	6.579
		JENDL-3.2	6334	1854.	1968.	1284.	5.028	6.574
	Elast.	JEF-2.2	6334	6.050	5.987	189.2	2.610	3.762
		ENDF/B-VI	6334	5.449	5.385	167.5	2.610	3.762
		JENDL-3.2	6334	6.600	6.574	111.4	3.267	4.398
	Inel.	JEF-2.2	6334			0.2194-01	0.2300-01	2.585
		ENDF/B-VI	6334			0.2194-01	0.2300-01	2.585
		JENDL-3.2	6334			0.1015-01	0.2134	1.633
	n,2n	JEF-2.2	6334				2.214	0.9756-02
		ENDF/B-VI	6334				2.214	0.9754-02
		JENDL-3.2	6334				1.541	0.1384-01
	n,3n	JEF-2.2	6334					0.5148-05
		ENDF/B-VI	6334					0.5146-05
		JENDL-3.2	6334					0.9123-05

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
63-Eu-154	n,g	JEF-2.2	6334	1502.	1196.	2556.	0.2599-02	0.2216
		ENDF/B-VI	6334	1358.	1481.	1342.	0.2603-02	0.2220
		JENDL-3.2	6334	1847.	1962.	1173.	0.1001-02	0.5277
	n,p	JEF-2.2	6334			0.9675-05	0.8851-01	0.4120-03
		ENDF/B-VI	6334			0.9678-05	0.8851-01	0.4119-03
		JENDL-3.2	6334				0.3793-02	0.4092-05
	n,d	JEF-2.2	6334				0.1471-02	0.9166-06
		ENDF/B-VI	6334				0.1471-02	0.9163-06
		JENDL-3.2	6334				0.9396-03	0.5018-06
	n,t	JEF-2.2	6334				0.2322-02	0.1530-05
		ENDF/B-VI	6334				0.2322-02	0.1529-05
		JENDL-3.2	6334				0.8926-04	0.8340-07
	n,He3	JEF-2.2	6334				0.2001-05	0.5726-08
		ENDF/B-VI	6334				0.2001-05	0.5726-08
	n,a	JEF-2.2	6334	0.1826-11	0.3618-11	0.7081-05	0.2562-01	0.2294-03
		ENDF/B-VI	6334	0.1791-11	0.3582-11	0.7081-05	0.2562-01	0.2293-03
		JENDL-3.2	6334				0.1394-02	0.1526-05
	63-Eu-155	Total	JEF-2.2	6337	3645.	4116.	2328.	5.395
ENDF/B-VI			6337	4011.	3746.	0.2476+05	5.400	6.840
JENDL-3.2			6337	3768.	3413.	0.1649+05	5.017	6.597
Elast.		JEF-2.2	6337	3.520	4.134	156.1	3.091	4.252
		ENDF/B-VI	6337	25.03	28.36	1323.	3.000	4.006
		JENDL-3.2	6337	6.601	7.709	978.1	3.251	4.598
Inel.		JEF-2.2	6337			0.4407-01	0.6636-01	2.121
		ENDF/B-VI	6337			0.9810-01	0.2365	2.042
		JENDL-3.2	6337			0.4130-01	0.2177	1.873
n,2n		JEF-2.2	6337				2.232	0.5585-02
		ENDF/B-VI	6337				2.156	0.8141-02
		JENDL-3.2	6337				1.543	0.3892-02
n,3n		ENDF/B-VI	6337					0.3146-04
		JENDL-3.2	6337					0.1802-04
n,g		JEF-2.2	6337	3642.	4112.	2172.	0.1338-02	0.2790
		ENDF/B-VI	6337	3986.	3717.	0.2344+05	0.2641-02	0.7836
		JENDL-3.2	6337	3761.	3405.	0.1552+05	0.1003-02	0.1217
n,p		JEF-2.2	6337				0.2762-02	0.7663-05
		ENDF/B-VI	6337				0.1421-02	0.2057-05
		JENDL-3.2	6337				0.2763-02	0.1788-05
n,d		JEF-2.2	6337				0.5972-03	0.1282-05
		ENDF/B-VI	6337				0.9977-03	0.7470-06
		JENDL-3.2	6337				0.1713-03	0.1604-06

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
63-Eu-155	n,t	JEF-2.2	6337				0.6156-04	0.6966-07
		ENDF/B-VI	6337				0.4983-03	0.2655-06
		JENDL-3.2	6337				0.1061-04	0.3496-07
	n,He3	JEF-2.2	6337				0.7033-06	0.1418-08
		ENDF/B-VI	6337					0.7352-10
	n,a	JEF-2.2	6337	0.1179-13	0.2337-13	0.4573-07	0.1057-02	0.2635-05
		ENDF/B-VI	6337	0.7008-05	0.6238-05	0.1822-03	0.1417-02	0.2431-04
		JENDL-3.2	6337				0.1079-02	0.9178-06
	63-Eu-156	Total	JEF-2.2	6340	488.2	434.9	1645.	4.744
ENDF/B-VI			6340	489.7	436.3	1644.	4.745	6.389
JENDL-3.2			6340	106.8	95.79	1988.	5.008	6.621
Elast.		JEF-2.2	6340	5.597	7.087	150.5	3.287	4.173
		ENDF/B-VI	6340	5.342	5.332	122.4	3.285	4.174
		JENDL-3.2	6340	6.624	6.623	538.3	3.238	4.492
Inel.		JEF-2.2	6340			1.681	1.454	2.209
		ENDF/B-VI	6340			1.681	1.454	2.209
		JENDL-3.2	6340			1.419	0.1974	2.048
n,2n		JENDL-3.2	6340				1.566	0.1498-01
n,3n		JENDL-3.2	6340					0.1481-04
n,g		JEF-2.2	6340	482.6	427.8	1492.	0.2784-02	0.2022-02
		ENDF/B-VI	6340	483.2	429.1	1492.	0.2784-02	0.2027-02
		JENDL-3.2	6340	100.1	88.68	1448.	0.1000-02	0.6500-01
n,p		JEF-2.2	6340			0.2115-07	0.2224-02	0.6897-05
		JENDL-3.2	6340				0.2139-02	0.1420-05
n,d		JEF-2.2	6340				0.5482-03	0.8973-06
		JENDL-3.2	6340				0.3916-03	0.2816-06
n,t		JEF-2.2	6340				0.1049-04	0.1319-07
		JENDL-3.2	6340				0.4222-04	0.5765-07
n,He3		JEF-2.2	6340				0.5974-06	0.8889-09
n,a	JEF-2.2	6340	0.6747-14	0.1337-13	0.2617-07	0.8855-03	0.2266-05	
	JENDL-3.2	6340				0.8763-03	0.6675-06	
63-Eu-157	Total	JEF-2.2	6343	195.8	175.5	1442.	4.748	6.405
		ENDF/B-VI	6343	196.4	176.1	1441.	4.749	6.412
	Elast.	JEF-2.2	6343	5.342	5.343	126.6	3.277	4.968
		ENDF/B-VI	6343	5.352	5.358	126.5	3.277	4.977
	Inel.	JEF-2.2	6343			0.2989-01	1.467	1.425
		ENDF/B-VI	6343			0.2989-01	1.467	1.425

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
63-Eu-157	n,g	JEF-2.2	6343	190.2	168.4	1302.	0.2333-02	0.4345-02
		ENDF/B-VI	6343	190.4	168.9	1301.	0.2333-02	0.4355-02
64-Gd-0	Total	BROND-2	6400	0.4888+05	0.3683+05	568.9	5.216	6.744
	Elast.	BROND-2	6400	169.3	138.3	170.6	1.937	4.157
	Inel.	BROND-2	6400			0.8999-02	1.487	2.472
	n,2n	BROND-2	6400				1.780	0.6993-02
	n,3n	BROND-2	6400				0.2186-11	0.1299-04
	n,g	BROND-2	6400	0.4871+05	0.3669+05	398.3	0.2334-02	0.1077
	n,p	BROND-2	6400	0.4993-15	0.9893-15	0.1937-08	0.4004-02	0.9493-05
	n,t	BROND-2	6400				0.8046-13	0.1097-10
	n,a	BROND-2	6400	0.7152-14	0.1417-13	0.2774-07	0.1009-02	0.2380-05
64-Gd-152	Total	ENDF/B-VI	6425	17.55	15.92	871.9	5.210	6.742
		JENDL-3.2	6425	1070.	947.8	1581.	5.699	7.008
		BROND-2	6452	753.6	655.1	965.3	5.216	6.742
	Elast.	ENDF/B-VI	6425	3.086	3.087	468.4	1.941	4.577
		JENDL-3.2	6425	13.96	13.91	593.3	3.416	5.144
		BROND-2	6452	16.17	15.70	459.6	0.8309	4.321
	Inel.	ENDF/B-VI	6425				1.371	1.842
		JENDL-3.2	6425				0.5080	1.565
		BROND-2	6452				2.569	2.097
	n,2n	ENDF/B-VI	6425				1.865	0.4939-02
		JENDL-3.2	6425				1.757	0.2635-02
		BROND-2	6452				1.800	0.1788-02
	n,3n	JENDL-3.2	6425					0.1638-04
		BROND-2	6452					0.8265-05
	n,g	ENDF/B-VI	6425	14.51	12.83	403.2	0.2606-02	0.3208
		JENDL-3.2	6425	1056.	933.9	987.8	0.1026-02	0.2946
		BROND-2	6452	737.5	639.5	505.6	0.2606-02	0.3211
	n,p	ENDF/B-VI	6425				0.8078-02	0.1985-04
		JENDL-3.2	6425				0.1135-01	0.9907-05
		BROND-2	6452				0.5400-02	0.1423-04
	n,d	JENDL-3.2	6425				0.3709-03	0.2750-06
n,t	JENDL-3.2	6425				0.2106-04	0.3907-07	
	BROND-2	6452				0.7038-12	0.1372-11	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
64-Gd-152	n,He3	JENDL-3.2	6425				0.1202-12	0.2432-10
		ENDF/B-VI	6425				0.3598-02	0.1177-04
	JENDL-3.2	6425	0.6987-02	0.6179-02	0.6196-01	0.4104-02	0.9238-04	
	BROND-2	6452	0.1187-12	0.2351-12	0.4600-06	0.3700-03	0.2392-04	
64-Gd-154	Total	JEF-2.2	6431	88.70	79.00	536.0	4.735	6.334
		ENDF/B-VI	6431	96.58	86.72	419.8	5.210	6.742
		JENDL-3.2	6431	92.41	82.13	406.7	5.697	6.985
		BROND-2	6454	97.41	87.23	418.7	5.216	6.742
	Elast.	JEF-2.2	6431	3.585	3.586	289.1	3.367	4.633
		ENDF/B-VI	6431	10.58	10.53	190.2	1.918	4.403
		JENDL-3.2	6431	7.380	7.354	193.1	3.417	5.027
		BROND-2	6454	10.55	10.51	190.4	0.7044	4.145
	Inel.	JEF-2.2	6431				1.357	1.390
		ENDF/B-VI	6431				1.370	2.012
		JENDL-3.2	6431				0.2878	1.689
		BROND-2	6454				2.560	2.267
	n,2n	ENDF/B-VI	6431				1.899	0.4874-02
		JENDL-3.2	6431				1.980	0.3366-02
		BROND-2	6454				1.940	0.2327-02
	n,3n	JENDL-3.2	6431					0.1652-04
		BROND-2	6454					0.4881-05
	n,g	JEF-2.2	6431	85.11	75.41	246.3	0.2606-02	0.3081
		ENDF/B-VI	6431	86.21	76.15	229.4	0.2605-02	0.3263
		JENDL-3.2	6431	85.03	74.78	213.6	0.1123-02	0.2638
		BROND-2	6454	86.87	76.72	228.2	0.2606-02	0.3262
	n,p	JEF-2.2	6431				0.6547-02	0.1593-04
		ENDF/B-VI	6431				0.6719-02	0.1686-04
		JENDL-3.2	6431				0.6854-02	0.5561-05
		BROND-2	6454				0.5400-02	0.1396-04
	n,d	JEF-2.2	6431				0.2416-02	0.2492-05
		JENDL-3.2	6431				0.1494-03	0.1423-06
	n,t	JEF-2.2	6431				0.1787-04	0.1783-07
		JENDL-3.2	6431				0.2744-05	0.1781-07
		BROND-2	6454				0.6098-12	0.3011-12
	n,He3	JEF-2.2	6431				0.2297-05	0.1167-07
	n,a	JEF-2.2	6431	0.2414-13	0.4782-13	0.9359-07	0.2354-02	0.6415-05
		ENDF/B-VI	6431				0.1393-02	0.3592-05
		JENDL-3.2	6431				0.2370-02	0.6068-05
		BROND-2	6454				0.7850-04	0.7937-06

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
64-Gd-155	Total	JEF-2.2	6434	0.6085+05	0.4549+05	1705.	5.672	6.991
		ENDF/B-VI	6434	0.6116+05	0.4564+05	1726.	5.210	6.751
		JENDL-3.2	6434	0.6081+05	0.4548+05	1667.	5.694	6.986
		BROND-2	6455	0.6103+05	0.4562+05	1725.	5.216	6.751
	Elast.	JEF-2.2	6434	59.00	50.80	161.8	3.243	4.519
		ENDF/B-VI	6434	58.92	50.74	171.3	1.913	3.956
		JENDL-3.2	6434	58.99	50.73	134.4	3.423	4.644
		BROND-2	6455	59.33	51.08	171.4	1.992	3.738
	Inel.	JEF-2.2	6434			0.7036-01	2.430	2.121
		ENDF/B-VI	6434			0.4161	1.369	2.523
		JENDL-3.2	6434			0.6995-01	0.4720	2.100
		BROND-2	6455			0.7136-02	1.418	2.753
	n,2n	ENDF/B-VI	6434				1.882	0.2083-01
		JENDL-3.2	6434				1.793	0.1040-01
		BROND-2	6455				1.790	0.1024-01
	n,3n	JENDL-3.2	6434					0.1305-04
		BROND-2	6455					0.1148-04
	n,g	JEF-2.2	6434	0.6079+05	0.4544+05	1543.	0.2070-04	0.3484
		ENDF/B-VI	6434	0.6110+05	0.4559+05	1555.	0.3090-02	0.2501
		JENDL-3.2	6434	0.6076+05	0.4543+05	1532.	0.1004-02	0.2294
		BROND-2	6455	0.6097+05	0.4557+05	1553.	0.3090-02	0.2500
	n,p	JEF-2.2	6434			0.5858-07	0.5544-02	0.1916-04
		ENDF/B-VI	6434				0.1449-01	0.5134-04
		JENDL-3.2	6434				0.5458-02	0.5772-05
		BROND-2	6455	0.3375-14	0.6686-14	0.1309-07	0.4700-02	0.2359-04
	n,d	JEF-2.2	6434				0.8300-03	0.1455-05
		JENDL-3.2	6434				0.7731-03	0.4295-06
	n,t	JEF-2.2	6434				0.8026-04	0.9478-07
		JENDL-3.2	6434				0.2675-04	0.4262-07
		BROND-2	6455				0.8073-13	0.5269-10
n,He3	JEF-2.2	6434				0.2343-05	0.1126-07	
n,a	JEF-2.2	6434	0.2622-13	0.5194-13	0.1017-06	0.2065-02	0.7562-05	
	ENDF/B-VI	6434				0.3302-02	0.1204-04	
	JENDL-3.2	6434	0.8167-04	0.6110-04	0.2037-05	0.1922-02	0.3435-05	
	BROND-2	6455				0.1730-03	0.1683-05	
64-Gd-156	Total	JEF-2.2	6437	7.113	6.938	308.8	5.384	6.719
		ENDF/B-VI	6437	7.371	7.176	297.1	5.210	6.742
		JENDL-3.2	6437	7.008	6.761	328.8	5.694	6.987
		BROND-2	6456	6.313	6.076	342.5	5.216	6.742
	Elast.	JEF-2.2	6437	5.578	5.576	208.6	3.072	4.761
		ENDF/B-VI	6437	5.648	5.655	192.4	1.901	4.567
		JENDL-3.2	6437	4.819	4.819	209.0	3.423	5.091
		BROND-2	6456	4.251	4.252	225.1	1.903	4.424

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
64-Gd-156	Incl.	JEF-2.2	6437			0.5882-02	0.3948-01	1.835	
		ENDF/B-VI	6437			0.1784-01	1.369	2.059	
		JENDL-3.2	6437			0.4347-02	0.5838	1.730	
		BROND-2	6456			0.1926-02	1.597	2.202	
	n,2n	JEF-2.2	6437				2.262	0.4742-02	
		ENDF/B-VI	6437				1.910	0.5319-02	
		JENDL-3.2	6437				1.683	0.3213-02	
		BROND-2	6456				1.700	0.2865-02	
	n,3n	JENDL-3.2	6437					0.1763-04	
		BROND-2	6456					0.8690-05	
	n,g	JEF-2.2	6437		1.537	1.363	100.2	0.1776-02	0.1191
		ENDF/B-VI	6437		1.716	1.522	104.7	0.2552-02	0.1121
		JENDL-3.2	6437		2.189	1.941	119.7	0.1035-02	0.1614
		BROND-2	6456		2.058	1.824	117.3	0.2553-02	0.1130
	n,p	JEF-2.2	6437					0.3907-02	0.9036-05
		ENDF/B-VI	6437					0.1074-01	0.2561-04
		JENDL-3.2	6437					0.5682-02	0.3860-05
		BROND-2	6456					0.9500-02	0.8964-05
	n,d	JEF-2.2	6437					0.1929-02	0.1894-05
		JENDL-3.2	6437					0.1288-03	0.1386-06
	n,t	JEF-2.2	6437					0.1419-04	0.1415-07
		JENDL-3.2	6437					0.3150-05	0.1972-07
		BROND-2	6456					0.6102-13	0.1937-12
	n,He3	JEF-2.2	6437					0.3012-05	0.1053-07
	n,a	JEF-2.2	6437		0.2600-13	0.5151-13	0.1008-06	0.2449-02	0.6289-05
		ENDF/B-VI	6437		0.3458-06	0.3079-06	0.9116-05	0.7461-02	0.1875-04
		JENDL-3.2	6437					0.2358-02	0.2111-05
		BROND-2	6456		0.3064-14	0.6071-14	0.1188-07	0.3420-04	0.3180-06
64-Gd-157	Total	JEF-2.2	6440	0.2551+06	0.1927+06	945.6	5.393	6.699	
		ENDF/B-VI	6440	0.2560+06	0.1936+06	959.5	5.210	6.745	
		JENDL-3.2	6440	0.2547+06	0.1924+06	936.1	5.696	6.983	
		BROND-2	6457	0.2546+06	0.1922+06	956.6	5.216	6.744	
	Elast.	JEF-2.2	6440	1759.	1420.	181.8	3.085	4.477	
		ENDF/B-VI	6440	1015.	822.9	200.1	1.878	4.048	
		JENDL-3.2	6440	1009.	819.3	175.0	3.421	4.720	
		BROND-2	6457	1008.	817.3	200.4	2.211	3.905	
	Incl.	JEF-2.2	6440			0.2994	2.299	2.019	
		ENDF/B-VI	6440			0.7137	1.368	2.583	
		JENDL-3.2	6440			0.2161	0.5319	2.134	
		BROND-2	6457			0.2253-01	1.205	2.734	
	n,2n	ENDF/B-VI	6440				1.943	0.2245-01	
		JENDL-3.2	6440				1.736	0.1354-01	
		BROND-2	6457				1.790	0.1286-01	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
64-Gd-157	n,3n	JENDL-3.2	6440					0.1606-04
		BROND-2	6457					0.1153-04
	n,g	JEF-2.2	6440	0.2534+06	0.1912+06	761.9	0.7596-04	0.2040
		ENDF/B-VI	6440	0.2558+06	0.1927+06	758.7	0.1190-02	0.9181-01
		JENDL-3.2	6440	0.2537+06	0.1916+06	760.9	0.1002-02	0.1157
		BROND-2	6457	0.2536+06	0.1914+06	756.1	0.1190-02	0.9169-01
	n,p	JEF-2.2	6440				0.4381-02	0.1129-04
		ENDF/B-VI	6440				0.4074-02	0.1081-04
		JENDL-3.2	6440				0.4450-02	0.3359-05
		BROND-2	6457				0.3200-02	0.1350-04
	n,d	JEF-2.2	6440				0.6327-03	0.1102-05
		JENDL-3.2	6440				0.4835-03	0.3074-06
	n,t	JEF-2.2	6440				0.6465-04	0.7582-07
		JENDL-3.2	6440				0.2335-04	0.4229-07
		BROND-2	6457				0.8017-13	0.1976-10
	n,He3	JEF-2.2	6440				0.6078-06	0.1567-08
	n,a	JEF-2.2	6440	0.1084-13	0.2148-13	0.4204-07	0.1259-02	0.3652-05
		ENDF/B-VI	6440				0.1994-02	0.5546-05
		JENDL-3.2	6440	0.4774-03	0.3611-03	0.1420-05	0.1173-02	0.9748-06
		BROND-2	6457				0.4750-04	0.1765-06
64-Gd-158	Total	JEF-2.2	6443	6.014	5.730	195.3	4.751	6.426
		ENDF/B-VI	6443	5.308	5.091	175.9	5.210	6.741
		JENDL-3.2	6443	6.369	6.085	180.3	5.694	6.982
		BROND-2	6458	5.393	5.167	186.7	5.216	6.741
	Elast.	JEF-2.2	6443	3.511	3.512	132.5	3.303	4.833
		ENDF/B-VI	6443	3.305	3.309	113.4	1.863	4.616
		JENDL-3.2	6443	3.871	3.870	116.7	3.423	5.107
		BROND-2	6458	3.422	3.422	115.8	1.906	4.267
	Inel.	JEF-2.2	6443					
		ENDF/B-VI	6443			0.1405-01	1.444	1.537
		JENDL-3.2	6443			0.4155-01	1.367	2.043
		BROND-2	6458			0.1602-01	0.4824	1.815
						0.7066-02	1.481	2.394
	n,2n	ENDF/B-VI	6443				1.969	0.7149-02
		JENDL-3.2	6443				1.789	0.5386-02
		BROND-2	6458				1.820	0.4859-02
	n,3n	JENDL-3.2	6443					0.3070-04
		BROND-2	6458					0.1388-04
	n,g	JEF-2.2	6443	2.503	2.219	62.77	0.2883-02	0.5566-01
		ENDF/B-VI	6443	2.014	1.783	62.38	0.2883-02	0.7476-01
		JENDL-3.2	6443	2.498	2.214	63.66	0.1019-02	0.5493-01
		BROND-2	6458	1.968	1.745	70.82	0.2883-02	0.7474-01

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
64-Gd-158	n,p	JEF-2.2	6443				0.2420-02	0.4628-05	
		ENDF/B-VI	6443				0.1769-02	0.3495-05	
		JENDL-3.2	6443				0.1813-02	0.9738-06	
		BROND-2	6458				0.1900-02	0.4575-05	
	n,d	JEF-2.2	6443				0.4860-03	0.1256-05	
		JENDL-3.2	6443				0.6545-04	0.9280-07	
	n,t	JEF-2.2	6443				0.1134-04	0.1138-07	
		JENDL-3.2	6443				0.5061-05	0.2184-07	
		BROND-2	6458				0.6178-13	0.1067-12	
	n,He3	JEF-2.2	6443				0.6402-06	0.1113-08	
	n,a	JEF-2.2	6443	0.1092-13	0.2164-13	0.4236-07	0.9544-03	0.2401-05	
		ENDF/B-VI	6443				0.1711-02	0.3912-05	
		JENDL-3.2	6443				0.1683-02	0.9973-06	
		BROND-2	6458	0.2531-13	0.5015-13	0.9819-07	0.1998-02	0.5525-05	
	64-Gd-160	Total	JEF-2.2	6449	4.498	4.411	165.4	4.756	6.466
			ENDF/B-VI	6449	4.411	4.321	127.5	5.210	6.741
JENDL-3.2			6449	4.915	4.825	195.1	5.699	6.987	
BROND-2			6460	3.968	3.946	124.9	5.216	6.740	
Elast.		JEF-2.2	6449	3.729	3.729	157.1	3.288	4.891	
		ENDF/B-VI	6449	3.642	3.645	119.7	1.842	4.599	
		JENDL-3.2	6449	4.118	4.118	183.2	3.423	5.133	
		BROND-2	6460	3.761	3.761	117.3	1.905	4.248	
Inel.		JEF-2.2	6449			0.2044-01	1.465	1.492	
		ENDF/B-VI	6449			0.6252-01	1.366	2.076	
		JENDL-3.2	6449			0.2919-01	0.5081	1.819	
		BROND-2	6460			0.1038-01	1.524	2.455	
n,2n		ENDF/B-VI	6449				2.002	0.1168-01	
		JENDL-3.2	6449				1.753	0.8139-02	
		BROND-2	6460				1.780	0.7402-02	
n,3n		JENDL-3.2	6449				0.1099-01	0.4057-04	
		BROND-2	6460				0.1000-10	0.1894-04	
n,g		JEF-2.2	6449	0.7710	0.6831	8.216	0.2335-02	0.8001-01	
		ENDF/B-VI	6449	0.7654	0.6788	7.641	0.1502-02	0.5580-01	
		JENDL-3.2	6449	0.7965	0.7056	11.90	0.1007-02	0.2509-01	
		BROND-2	6460	0.2093	0.1855	7.570	0.1783-02	0.3120-01	
n,p		JEF-2.2	6449				0.1357-02	0.2303-05	
		ENDF/B-VI	6449				0.1529-02	0.2691-05	
		JENDL-3.2	6449				0.1329-02	0.6412-06	
		BROND-2	6460				0.1200-02	0.2685-05	
n,d		JEF-2.2	6449				0.3641-03	0.9130-06	
		JENDL-3.2	6449				0.3708-04	0.1263-06	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
64-Gd-160	n,t	JEF-2.2	6449				0.9114-05	0.9109-08
		JENDL-3.2	6449				0.1151-04	0.5571-07
		BROND-2	6460				0.6144-13	0.3781-13
	n,a	JEF-2.2	6449	0.1699-13	0.3368-13	0.6594-07	0.1539-02	0.3524-05
		ENDF/B-VI	6449				0.1319-02	0.2508-05
		JENDL-3.2	6449				0.1409-02	0.7211-06
		BROND-2	6460	0.1934-17	0.3832-17	0.7503-11	0.2151-02	0.2749-05
65-Tb-159	Total	JEF-2.2	6525	29.87	27.35	606.7	5.009	6.717
		ENDF/B-VI	6525	29.78	26.95	798.4	4.752	6.457
		JENDL-3.2	6525	47.40	41.03	630.5	5.258	6.589
	Elast.	JEF-2.2	6525	6.574	6.575	193.6	2.499	4.031
		ENDF/B-VI	6525	4.227	4.217	336.7	3.288	4.460
		JENDL-3.2	6525	20.88	18.37	161.1	3.116	4.529
	Incl.	JEF-2.2	6525			0.2689	0.5942-01	2.519
		ENDF/B-VI	6525			0.2137	1.462	1.834
		JENDL-3.2	6525			0.1053	0.2873	1.867
	n,2n	JEF-2.2	6525				2.449	0.6079-02
		JENDL-3.2	6525				1.852	0.4949-02
	n,3n	JENDL-3.2	6525					0.1691-04
	n,g	JEF-2.2	6525	23.23	20.58	412.7	0.1772-02	0.1588
		ENDF/B-VI	6525	25.57	22.73	459.7	0.1763-02	0.1552
		JENDL-3.2	6525	26.50	22.67	469.3	0.1012-02	0.1881
	n,p	JENDL-3.2	6525				0.3978-02	0.3117-05
	n,d	JENDL-3.2	6525				0.6395-03	0.3918-06
	n,t	JENDL-3.2	6525				0.3872-04	0.6001-07
	n,a	JENDL-3.2	6525				0.2057-02	0.1738-05
	65-Tb-160	Total	JEF-2.2	6528	531.3	472.7	1361.	4.756
ENDF/B-VI			6528	532.9	474.2	1360.	4.754	6.470
Elast.		JEF-2.2	6528	5.410	5.410	180.2	3.254	4.334
		ENDF/B-VI	6528	5.420	5.426	180.1	3.254	4.338
Incl.		JEF-2.2	6528				1.497	2.119
		ENDF/B-VI	6528				1.497	2.119
n,g		JEF-2.2	6528	525.6	465.4	1134.	0.2917-02	0.4400-02
		ENDF/B-VI	6528	526.2	466.8	1134.	0.2917-02	0.4411-02

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
66-Dy-160	Total	JEF-2.2	6637	63.40	56.90	2322.	4.756	6.467
		ENDF/B-VI	6637	63.36	56.76	2325.	4.754	6.473
	Elast.	JEF-2.2	6637	2.317	2.308	639.4	3.657	4.669
		ENDF/B-VI	6637	1.961	1.944	640.1	3.657	4.672
	Incl.	JEF-2.2	6637			0.4223-02	1.095	1.019
		ENDF/B-VI	6637			0.4223-02	1.095	1.019
	n.g	JEF-2.2	6637	61.09	54.59	1675.	0.2669-02	0.7661
		ENDF/B-VI	6637	61.25	54.79	1676.	0.2668-02	0.7660
66-Dy-161	Total	JEF-2.2	6640	609.4	537.9	1563.	4.758	6.482
		ENDF/B-VI	6640	611.3	540.3	1568.	4.756	6.487
	Elast.	JEF-2.2	6640	23.80	23.46	340.2	3.278	4.682
		ENDF/B-VI	6640	24.39	24.06	343.7	3.278	4.685
	Incl.	JEF-2.2	6640			0.4877	1.475	1.666
		ENDF/B-VI	6640			0.4877	1.475	1.666
	n.g	JEF-2.2	6640	585.6	514.4	1216.	0.3076-02	0.1259
		ENDF/B-VI	6640	586.1	516.1	1217.	0.3079-02	0.1262
66-Dy-162	Total	JEF-2.2	6643	199.6	177.7	3478.	4.759	6.496
		ENDF/B-VI	6643	199.0	176.7	3474.	4.757	6.500
	Elast.	JEF-2.2	6643	0.2302	0.2241	693.9	3.329	4.861
		ENDF/B-VI	6643	-1.339	-1.352	687.3	3.329	4.864
	Incl.	JEF-2.2	6643			0.1084-01	1.425	1.347
		ENDF/B-VI	6643			0.1084-01	1.425	1.347
	n.g	JEF-2.2	6643	199.4	177.5	2784.	0.2595-02	0.2787
		ENDF/B-VI	6643	200.4	178.1	2787.	0.2594-02	0.2790
66-Dy-163	Total	JEF-2.2	6646	136.9	121.8	1784.	4.760	6.507
		ENDF/B-VI	6646	136.7	121.7	1783.	4.757	6.513
	Elast.	JEF-2.2	6646	2.336	2.321	316.2	3.227	4.527
		ENDF/B-VI	6646	1.825	1.803	315.0	3.227	4.531
	Incl.	JEF-2.2	6646			0.2174	1.527	1.896
		ENDF/B-VI	6646			0.2174	1.527	1.896
	n.g	JEF-2.2	6646	134.5	119.5	1467.	0.2904-02	0.8107-01
		ENDF/B-VI	6646	134.6	119.9	1468.	0.2904-02	0.8130-01

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
66-Dy-164	Total	JEF-2.2	6649	2913.	2589.	995.1	5.260	6.748
		ENDF/B-VI	6649	2921.	2595.	1005.	5.260	6.749
	Elast.	JEF-2.2	6649	390.6	382.0	666.7	3.006	4.339
		ENDF/B-VI	6649	391.1	382.8	675.9	3.008	4.344
	Inel.	JEF-2.2	6649			0.6624-01	0.4000-01	2.302
		ENDF/B-VI	6649			0.6944-01	0.4000-01	2.302
	n,2n	JEF-2.2	6649				2.198	0.8045-02
		ENDF/B-VI	6649				2.198	0.8048-02
	n,3n	JEF-2.2	6649					0.6867-04
		ENDF/B-VI	6649				0.2323-02	0.6876-04
	n,g	JEF-2.2	6649	2522.	2207.	328.4	0.8500-02	0.9851-01
		ENDF/B-VI	6649	2527.	2211.	329.0	0.8500-02	0.9855-01
	n,p	JEF-2.2	6649				0.1000-02	0.2654-04
		ENDF/B-VI	6649				0.1000-02	0.2649-04
n,a	JEF-2.2	6649				0.4300-02	0.1978-03	
	ENDF/B-VI	6649				0.4300-02	0.1980-03	
67-Ho-165	Total	JEF-2.2	6725	69.88	62.38	1122.	4.758	6.527
		ENDF/B-VI	6725	74.26	70.72	986.5	5.322	6.888
	Elast.	JEF-2.2	6725	3.292	3.289	358.0	3.208	4.659
		ENDF/B-VI	6725	8.690	8.692	241.2	2.875	4.237
	Inel.	JEF-2.2	6725			0.4266-02	1.545	1.717
		ENDF/B-VI	6725			0.4134-02	0.4893	2.523
	n,2n	ENDF/B-VI	6725				1.959	0.5166-02
	n,3n	ENDF/B-VI	6725					0.9953-05
n,g	JEF-2.2	6725	66.59	59.09	761.4	0.2619-02	0.1460	
	ENDF/B-VI	6725	64.86	57.68	720.2	0.1276-02	0.1220	
68-Er-162	Total	BROND-2	6862	59.31	48.63	788.7	5.272	6.916
	Elast.	BROND-2	6862	30.21	25.92	270.3	3.098	4.304
	Inel.	BROND-2	6862				0.4680	2.077
	n,2n	BROND-2	6862				1.622	0.1682-02
	n,3n	BROND-2	6862					0.1185-05
	n,g	BROND-2	6862	29.11	22.71	518.4	0.7200-01	0.5333
	n,p	BROND-2	6862				0.1200-01	0.2141-04

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
68-Er-162	n,a	BROND-2	6862				0.6000-03	0.4396-06
68-Er-164	Total	BROND-2	6864	47.43	41.65	324.8	5.301	6.942
	Elast.	BROND-2	6864	34.33	30.03	181.9	3.405	4.861
	Inel.	BROND-2	6864			0.5412-02	0.3560	1.875
	n,2n	BROND-2	6864				1.503	0.2052-02
	n,3n	BROND-2	6864					0.2192-05
	n,g	BROND-2	6864	13.13	11.63	142.8	0.2900-01	0.2038
	n,p	BROND-2	6864				0.6000-02	0.3800-05
	n,a	BROND-2	6864				0.5000-03	0.3669-06
68-Er-166	Total	JEF-2.2	6837	38.77	34.78	338.3	4.757	6.535
		ENDF/B-VI	6837	35.54	33.36	312.1	4.755	6.503
		BROND-2	6866	57.74	51.10	352.5	5.273	6.883
	Elast.	JEF-2.2	6837	3.762	3.763	198.1	3.223	4.889
		ENDF/B-VI	6837	15.90	15.92	213.6	3.223	4.854
		BROND-2	6866	37.13	32.85	242.8	3.229	4.718
	Inel.	JEF-2.2	6837			0.1321-01	1.529	1.491
		ENDF/B-VI	6837			0.1321-01	1.529	1.491
		BROND-2	6866			0.2422-01	0.3260	2.019
	n,2n	BROND-2	6866				1.694	0.2936-02
	n,3n	BROND-2	6866					0.4456-05
	n,g	JEF-2.2	6837	35.01	31.02	140.1	0.2727-02	0.1488
		ENDF/B-VI	6837	19.74	17.45	98.40	0.2726-02	0.1521
		BROND-2	6866	20.61	18.26	109.6	0.1900-01	0.1438
n,p	BROND-2	6866				0.4800-02	0.2616-05	
n,a	BROND-2	6866				0.4000-03	0.2918-06	
68-Er-167	Total	JEF-2.2	6840	672.3	636.6	3701.	4.755	6.541
		ENDF/B-VI	6840	662.7	627.5	3517.	4.753	6.511
		BROND-2	6867	680.8	641.0	3994.	5.295	6.864
	Elast.	JEF-2.2	6840	0.8881	0.8274	671.9	3.175	4.688
		ENDF/B-VI	6840	1.268	1.187	525.5	3.175	4.651
		BROND-2	6867	26.78	22.37	602.0	3.226	4.544

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
68-Er-167	Inel.	JEF-2.2	6840			0.4778-01	1.574	1.732
		ENDF/B-VI	6840			0.4778-01	1.574	1.732
		BROND-2	6867			0.9953-01	0.1260	2.197
	n,2n	BROND-2	6867				1.934	0.1344-01
	n,3n	BROND-2	6867					0.5177-05
	n,g	JEF-2.2	6840	671.4	635.7	3026.	0.3039-02	0.1141
		ENDF/B-VI	6840	661.5	626.3	2991.	0.3038-02	0.1203
		BROND-2	6867	654.2	618.6	3391.	0.7400-02	0.1115
	n,p	BROND-2	6867				0.6000-02	0.3800-05
	n,a	BROND-2	6867	0.6966-04	0.6172-04	0.3126-04	0.6000-03	0.4503-06
68-Er-168	Total	BROND-2	6868	35.90	31.30	239.3	5.297	6.910
	Elast.	BROND-2	6868	33.14	28.84	198.7	3.368	4.913
	Inel.	BROND-2	6868			0.3557-01	0.2309	1.935
	n,2n	BROND-2	6868				1.683	0.6384-02
	n,3n	BROND-2	6868					0.9837-05
	n,g	BROND-2	6868	2.778	2.461	40.53	0.7000-02	0.5685-01
	n,p	BROND-2	6868				0.6000-02	0.3800-05
	n,a	BROND-2	6868				0.6000-03	0.4396-06
68-Er-170	Total	BROND-2	6870	41.61	36.67	604.3	5.274	7.024
	Elast.	BROND-2	6870	35.77	31.47	545.8	3.436	5.145
	Inel.	BROND-2	6870			0.4144-01	0.1640	1.839
	n,2n	BROND-2	6870				1.663	0.7600-02
	n,3n	BROND-2	6870				0.4000-02	0.2147-04
	n,g	BROND-2	6870	5.859	5.192	58.44	0.3850-02	0.3491-01
	n,p	BROND-2	6870				0.2000-02	0.8948-06
	n,a	BROND-2	6870				0.6000-03	0.3317-06
71-Lu-175	Total	JEF-2.2	7125	31.18	27.69	878.1	5.257	7.222
		ENDF/B-VI	7125	31.27	27.75	878.6	5.257	7.222

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
71-Lu-175	Elast.	JEF-2.2	7125	5.287	5.278	232.1	3.021	5.153
		ENDF/B-VI	7125	5.292	5.290	236.4	3.021	5.157
	Inel.	JEF-2.2	7125				0.1100	1.975
		ENDF/B-VI	7125				0.1100	1.977
	n,2n	JEF-2.2	7125				2.120	0.7091-02
		ENDF/B-VI	7125				2.120	0.7094-02
	n,3n	JEF-2.2	7125					0.4938-04
		ENDF/B-VI	7125					0.4939-04
	n,g	JEF-2.2	7125	25.90	22.41	646.0	0.2000-02	0.8319-01
		ENDF/B-VI	7125	25.88	22.45	642.1	0.2000-02	0.8338-01
	n,p	JEF-2.2	7125				0.3400-02	0.5019-03
		ENDF/B-VI	7125				0.3400-02	0.5019-03
	n,a	JEF-2.2	7125				0.1000-02	0.4879-06
		ENDF/B-VI	7125				0.1000-02	0.4882-06
71-Lu-176	Total	JEF-2.2	7128	1967.	3052.	1097.	5.258	7.233
		ENDF/B-VI	7128	1971.	3057.	1098.	5.258	7.234
	Elast.	JEF-2.2	7128	3.053	4.189	179.6	2.952	5.121
		ENDF/B-VI	7128	3.064	4.195	180.3	2.952	5.127
	Inel.	JEF-2.2	7128				0.1100	1.957
		ENDF/B-VI	7128				0.1100	1.957
	n,2n	JEF-2.2	7128				2.190	0.2203-01
		ENDF/B-VI	7128				2.190	0.2204-01
	n,3n	JEF-2.2	7128					0.5830-04
		ENDF/B-VI	7128					0.5832-04
	n,g	JEF-2.2	7128	1964.	3048.	917.8	0.3200-02	0.1302
		ENDF/B-VI	7128	1968.	3053.	917.9	0.3200-02	0.1305
	n,p	JEF-2.2	7128				0.3400-02	0.5019-03
		ENDF/B-VI	7128				0.3400-02	0.5019-03
n,a	JEF-2.2	7128				0.1000-02	0.4879-06	
	ENDF/B-VI	7128				0.1000-02	0.4882-06	
72-Hf- 0	Total	ENDF/B-VI	7200	111.2	100.4	2744.	5.294	7.043
		JENDL-3.2	7200	115.0	104.3	2764.	5.451	7.131
		CENDL-2	2720	114.9	104.2	2757.	5.313	7.072
	Elast.	ENDF/B-VI	7200	6.289	6.276	805.1	2.804	4.664
		JENDL-3.2	7200	9.972	9.961	770.7	2.910	4.655
		CENDL-2	2720	9.994	9.989	767.3	3.069	4.854

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
72-Hf- 0	Inel.	ENDF/B-VI	7200			0.3057-02	0.3821	2.257
		JENDL-3.2	7200			0.3651-02	0.7743	2.388
		CENDL-2	2720			0.2293-02	0.1095	2.026
	n,2n	ENDF/B-VI	7200				2.100	0.1678-01
		JENDL-3.2	7200				1.767	0.1093-01
		CENDL-2	2720				2.124	0.1358-01
	n,3n	JENDL-3.2	7200				0.1037-02	0.2132-04
		CENDL-2	2720				0.9497-03	0.3114-04
	n,g	ENDF/B-VI	7200	104.5	94.14	1939.	0.1224-01	0.1055
		JENDL-3.2	7200	105.0	94.33	1994.	0.1522-05	0.7670-01
		CENDL-2	2720	104.9	94.22	1990.		0.3287-02
	n,p	ENDF/B-VI	7200				0.5700-02	0.3449-05
		JENDL-3.2	7200				0.9953-03	0.9747-06
		CENDL-2	2720				0.9599-03	0.7770-06
	n,d	CENDL-2	2720				0.1962-03	0.1594-06
	n,t	CENDL-2	2720				0.9520-04	0.9864-07
n,He3	CENDL-2	2720				0.9407-13	0.2230-11	
n,a	JENDL-3.2	7200				0.4176-03	0.1135-05	
	CENDL-2	2720				0.2495-02	0.3073-04	
72-Hf-174	Total	JEF-2.2	7225	427.7	376.4	659.1	5.671	6.997
		ENDF/B-VI	7225	580.6	505.7	734.7	5.300	7.044
		JENDL-3.2	7225	576.5	501.5	737.3	5.334	7.104
	Elast.	JEF-2.2	7225	23.97	23.62	338.8	3.246	5.012
		ENDF/B-VI	7225	15.69	15.33	379.6	2.849	4.676
		JENDL-3.2	7225	14.99	14.66	375.5	2.750	4.563
	Inel.	JEF-2.2	7225				1.334	1.615
		ENDF/B-VI	7225			0.2342-02	0.3722	2.260
		JENDL-3.2	7225			0.4513-02	0.6925	2.256
	n,2n	JEF-2.2	7225				1.089	0.5249-03
		ENDF/B-VI	7225				1.980	0.5224-02
		JENDL-3.2	7225				1.892	0.3897-02
	n,3n	JEF-2.2	7225					0.1240-06
		JENDL-3.2	7225					0.4753-05
	n,g	JEF-2.2	7225	403.8	352.7	320.3	0.4492-04	0.3663
		ENDF/B-VI	7225	564.9	490.4	355.1	0.1232-01	0.1028
		JENDL-3.2	7225	561.5	486.9	361.8	0.4181-05	0.2761
	n,p	JEF-2.2	7225				0.2446-02	0.1465-04
		ENDF/B-VI	7225				0.8700-01	0.8673-04
	n,a	JEF-2.2	7225				0.3278-03	0.5210-05

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
72-Hf-176	Total	JEF-2.2	7231	18.57	16.99	970.9	5.670	6.991	
		ENDF/B-VI	7231	20.63	19.06	770.7	5.299	7.034	
		JENDL-3.2	7231	29.06	26.44	1429.	5.372	7.225	
	Elast.	JEF-2.2	7231	4.502	4.499	358.1	3.222	5.061	
		ENDF/B-VI	7231	6.789	6.765	370.5	2.849	4.662	
		JENDL-3.2	7231	5.558	5.549	536.2	2.758	4.765	
	Incl.	JEF-2.2	7231			0.4177-02	0.5214	1.616	
		ENDF/B-VI	7231			0.4513-02	0.3742	2.256	
		JENDL-3.2	7231			0.1043-01	0.7208	2.357	
	n,2n	JEF-2.2	7231				1.928	0.3625-02	
		ENDF/B-VI	7231				2.043	0.8010-02	
		JENDL-3.2	7231				1.890	0.5754-02	
	n,3n	JEF-2.2	7231					0.2847-05	
		JENDL-3.2	7231					0.6660-05	
	n,g	JEF-2.2	7231	14.07	12.49	612.8	0.1199-04	0.3078	
		ENDF/B-VI	7231	13.84	12.30	400.2	0.1232-01	0.1082	
		JENDL-3.2	7231	23.50	20.88	892.7	0.4217-06	0.9359-01	
	n,p	JEF-2.2	7231				0.1183-02	0.3392-05	
		ENDF/B-VI	7231				0.2200-01	0.1442-04	
		JENDL-3.2	7231				0.1921-02	0.2184-05	
	n,a	JEF-2.2	7231				0.6940-04	0.1196-05	
		JENDL-3.2	7231				0.6105-03	0.1778-05	
	72-Hf-177	Total	JEF-2.2	7234	376.8	340.3	7988.	5.678	6.991
			ENDF/B-VI	7234	375.5	340.3	8002.	5.315	7.020
JENDL-3.2			7234	374.0	338.0	7993.	5.378	7.061	
Elast.		JEF-2.2	7234	0.7381-01	0.6170-01	756.8	3.253	4.827	
		ENDF/B-VI	7234	0.2336-01	0.2783-01	781.6	2.840	4.260	
		JENDL-3.2	7234	0.2117	0.2367	784.6	2.888	4.494	
Incl.		JEF-2.2	7234				0.3067	1.797	
		ENDF/B-VI	7234				0.3821	2.558	
		JENDL-3.2	7234				0.4449	2.384	
n,2n		JEF-2.2	7234				2.118	0.1032-01	
		ENDF/B-VI	7234				2.070	0.2478-01	
		JENDL-3.2	7234				2.046	0.1591-01	
n,3n		JEF-2.2	7234					0.7062-05	
		JENDL-3.2	7234					0.1340-04	
n,g		JEF-2.2	7234	376.7	340.2	7232.	0.2318-05	0.3509	
		ENDF/B-VI	7234	375.5	340.3	7221.	0.1232-01	0.1772	
		JENDL-3.2	7234	373.7	337.8	7209.	0.1937-06	0.1635	
n,p		JEF-2.2	7234				0.7691-03	0.2928-05	
		ENDF/B-VI	7234				0.1100-01	0.8010-05	
		JENDL-3.2	7234				0.2007-02	0.2426-05	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
72-Hf-177	n,a	JEF-2.2	7234				0.5700-04	0.1111-05	
		JENDL-3.2	7234				0.1098-02	0.4157-05	
72-Hf-178	Total	JEF-2.2	7237	79.44	70.70	3741.	5.661	6.993	
		ENDF/B-VI	7237	89.41	80.18	3663.	5.307	7.024	
		JENDL-3.2	7237	88.54	79.17	3664.	5.506	7.186	
	Elast.	JEF-2.2	7237	0.9538	0.9405	1819.	3.201	5.132	
		ENDF/B-VI	7237	4.919	4.888	1748.	2.810	4.681	
		JENDL-3.2	7237	4.473	4.444	1750.	3.080	4.715	
	Inel.	JEF-2.2	7237			0.2674-02	0.4486	1.781	
		ENDF/B-VI	7237			0.4513-02	0.3821	2.253	
		JENDL-3.2	7237			0.4615-02	0.4980	2.405	
	n,2n	JEF-2.2	7237				2.019	0.4791-02	
		ENDF/B-VI	7237				2.100	0.1175-01	
		JENDL-3.2	7237				1.927	0.8055-02	
	n,3n	JEF-2.2	7237					0.1100-04	
		JENDL-3.2	7237					0.2171-04	
	n,g	JEF-2.2	7237	78.48	69.76	1922.	0.7578-06	0.7250-01	
		ENDF/B-VI	7237	84.49	75.29	1915.	0.1040-01	0.7804-01	
		JENDL-3.2	7237	84.07	74.72	1914.	0.7337-09	0.5544-01	
	n,p	JEF-2.2	7237				0.6051-03	0.8545-06	
		ENDF/B-VI	7237				0.5500-02	0.2845-05	
		JENDL-3.2	7237				0.6789-03	0.5273-06	
	n,a	JEF-2.2	7237				0.1980-04	0.1107-06	
		JENDL-3.2	7237				0.2298-03	0.3125-06	
	72-Hf-179	Total	JEF-2.2	7240	45.96	41.38	779.8	5.671	6.991
			ENDF/B-VI	7240	50.97	45.98	812.5	5.296	7.015
JENDL-3.2			7240	49.59	44.62	779.7	5.398	7.079	
Elast.		JEF-2.2	7240	6.820	6.806	236.7	3.220	4.952	
		ENDF/B-VI	7240	7.144	7.127	263.8	2.777	4.987	
		JENDL-3.2	7240	6.776	6.754	258.1	2.939	4.593	
Inel.		JEF-2.2	7240				0.3681	1.903	
		ENDF/B-VI	7240				0.3821	1.874	
		JENDL-3.2	7240				0.3897	2.357	
n,2n		JEF-2.2	7240				2.084	0.9712-02	
		ENDF/B-VI	7240				2.124	0.3542-01	
		JENDL-3.2	7240				2.071	0.2101-01	
n,3n		JEF-2.2	7240					0.1199-04	
		JENDL-3.2	7240				0.1706-02	0.2817-04	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
72-Hf-179	n,g	JEF-2.2	7240	39.15	34.57	543.1	0.2358-06	0.1221	
		ENDF/B-VI	7240	43.82	38.85	548.6	0.9856-02	0.1187	
		JENDL-3.2	7240	42.81	37.86	521.6	0.7516-07	0.1052	
	n,p	JEF-2.2	7240				0.5100-04	0.8731-07	
		ENDF/B-VI	7240				0.2800-02	0.1423-05	
		JENDL-3.2	7240				0.1518-02	0.1361-05	
	n,a	JEF-2.2	7240				0.6400-05	0.7008-07	
		JENDL-3.2	7240				0.5476-03	0.1058-05	
	72-Hf-180	Total	JEF-2.2	7243	33.30	31.77	276.2	5.662	6.990
ENDF/B-VI			7243	34.34	32.89	259.9	5.314	7.021	
JENDL-3.2			7243	34.30	32.81	271.2	5.485	7.396	
Elast.		JEF-2.2	7243	20.22	20.22	240.8	3.161	5.155	
		ENDF/B-VI	7243	21.26	21.28	225.6	2.786	4.721	
		JENDL-3.2	7243	21.30	21.28	237.3	2.804	4.964	
Inel.		JEF-2.2	7243			0.2926-02	0.2201	1.789	
		ENDF/B-VI	7243			0.4513-02	0.3821	2.253	
		JENDL-3.2	7243			0.5245-02	1.321	2.388	
n,2n		JEF-2.2	7243				2.286	0.7483-02	
		ENDF/B-VI	7243				2.140	0.1140-01	
		JENDL-3.2	7243				1.356	0.7412-02	
n,3n		JEF-2.2	7243					0.1681-04	
		JENDL-3.2	7243				0.2291-02	0.2480-04	
n,g		JEF-2.2	7243	13.08	11.55	35.44	0.8037-06	0.3480-01	
		ENDF/B-VI	7243	13.08	11.61	34.28	0.4805-02	0.3554-01	
		JENDL-3.2	7243	13.00	11.52	33.85	0.4122-05	0.3282-01	
n,p		JEF-2.2	7243				0.5470-04	0.4753-07	
		ENDF/B-VI	7243				0.1390-02	0.6503-06	
		JENDL-3.2	7243				0.3691-03	0.2285-06	
n,a		JEF-2.2	7243				0.1940-04	0.4940-07	
		JENDL-3.2	7243				0.1257-03	0.1115-06	
73-Ta-181		Total	JEF-2.2	7328	27.32	24.96	974.2	5.349	6.625
			ENDF/B-VI	7328	27.42	25.04	974.6	5.367	6.621
	JENDL-3.2		7328	26.35	24.05	892.0	5.370	7.004	
	BROND-2		7381	26.75	24.44	897.9	5.349	6.947	
	Elast.	JEF-2.2	7328	6.174	6.163	234.2	2.899	3.942	
		ENDF/B-VI	7328	6.180	6.175	234.3	2.899	3.943	
		JENDL-3.2	7328	5.666	5.657	229.9	2.991	4.625	
		BROND-2	7381	6.140	6.133	238.3	2.899	4.280	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
73-Ta-181	Inel.	JEF-2.2	7328			0.8283	0.2300	2.569	
		ENDF/B-VI	7328			0.8283	0.2300	2.569	
		JENDL-3.2	7328			1.043	0.2419	2.279	
		BROND-2	7381			0.8283	0.2300	2.569	
	n,2n	JEF-2.2	7328				2.212	0.8307-02	
		ENDF/B-VI	7328				2.212	0.8307-02	
		JENDL-3.2	7328				2.133	0.7210-02	
		BROND-2	7381				2.212	0.8307-02	
	n,3n	JEF-2.2	7328					0.3781-04	
		ENDF/B-VI	7328					0.3781-04	
		JENDL-3.2	7328					0.1828-04	
		BROND-2	7381					0.3781-04	
	n,g	JEF-2.2	7328	21.14	18.80	739.1	0.4500-02	0.1052	
		ENDF/B-VI	7328	21.25	18.87	739.2	0.4500-02	0.1053	
		JENDL-3.2	7328	20.68	18.38	659.4	0.2055-06	0.8729-01	
		BROND-2	7381	20.60	18.30	658.8	0.4500-02	0.8989-01	
	n,p	JEF-2.2	7328				0.3700-02	0.8168-04	
		ENDF/B-VI	7328				0.3700-02	0.8228-04	
		JENDL-3.2	7328				0.3723-02	0.3582-05	
		BROND-2	7381				0.3700-02	0.8169-04	
	n,a	JENDL-3.2	7328	0.4614-04	0.4781-04	1.579	0.1164-03	0.3897-02	
	73-Ta-182	Total	JEF-2.2	7331	8327.	0.1211+05	1329.	5.361	6.788
			ENDF/B-VI	7331	8363.	0.1215+05	1356.	5.347	6.784
		Elast.	JEF-2.2	7331	31.17	47.86	286.2	2.743	3.768
ENDF/B-VI			7331	31.27	47.97	298.0	2.734	3.771	
Inel.		JEF-2.2	7331			0.3505-02	0.3870	2.934	
		ENDF/B-VI	7331			0.3505-02	0.3870	2.934	
n,2n		JEF-2.2	7331				2.157	0.1856-01	
		ENDF/B-VI	7331				2.157	0.1856-01	
n,3n		JEF-2.2	7331				0.7100-01	0.7978-04	
		ENDF/B-VI	7331				0.7100-01	0.7978-04	
n,g		JEF-2.2	7331	8296.	0.1206+05	1043.	0.4200-02	0.6787-01	
		ENDF/B-VI	7331	8332.	0.1210+05	1057.	0.4200-02	0.6802-01	
n,a		JEF-2.2	7331				0.1900-02	0.9624-06	
		ENDF/B-VI	7331				0.1900-02	0.9624-06	
74-W - 0	Total	ENDF/B-VI	7400	23.25	21.22	1482.	5.452	6.849	
		JENDL-3.2	7400	23.25	21.19	1520.	5.208	6.751	
		CENDL-2	2740	22.45	21.43	1233.	5.350	6.846	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
74-W - 0	Elast.	ENDF/B-VI	7400	5.035	5.033	1120.	2.961	4.269	
		JENDL-3.2	7400	4.987	4.982	1202.	2.544	4.245	
		CENDL-2	2740	5.668	5.665	909.6	2.951	4.613	
	Inel.	ENDF/B-VI	7400			0.7263-01	0.4850	2.522	
		JENDL-3.2	7400			0.5841-01	0.4992	2.448	
		CENDL-2	2740			0.1362-03	0.2618	2.175	
	n,2n	ENDF/B-VI	7400				1.992	0.9665-02	
		JENDL-3.2	7400				2.150	0.9557-02	
		CENDL-2	2740				2.122	0.8923-02	
	n,3n	ENDF/B-VI	7400				0.9908-02	0.2702-04	
		JENDL-3.2	7400				0.1018-01	0.2296-04	
		CENDL-2	2740				0.1400-01	0.3324-04	
	n,g	ENDF/B-VI	7400	18.21	16.19	362.0	0.1094-02	0.4765-01	
		JENDL-3.2	7400	18.26	16.21	317.0	0.1000-02	0.4643-01	
		CENDL-2	2740	16.78	15.77	323.2	0.9000-03	0.4922-01	
	n,p	ENDF/B-VI	7400				0.2313-02	0.1423-05	
		JENDL-3.2	7400				0.3098-02	0.2152-05	
		CENDL-2	2740				0.2300-02	0.1262-05	
	n,d	JENDL-3.2	7400				0.4242-03	0.2152-06	
	n,a	ENDF/B-VI	7400	0.2621-13	0.5242-13	0.1036-06	0.7454-03	0.2462-05	
		JENDL-3.2	7400				0.1395-02	0.2786-05	
	74-W -182	Total	JEF-2.2	7431	32.43	30.13	1059.	5.338	6.872
			ENDF/B-VI	7431	32.45	30.20	1060.	5.407	6.811
			JENDL-3.2	7431	29.59	27.28	1102.	5.206	6.801
BROND-2			7482	25.49	23.27	1024.	5.340	6.886	
Elast.		JEF-2.2	7431	11.86	11.85	462.5	2.740	4.547	
		ENDF/B-VI	7431	11.87	11.87	462.8	2.901	4.281	
		JENDL-3.2	7431	8.868	8.854	473.6	2.550	4.391	
		BROND-2	7482	4.478	4.469	421.8	2.736	4.540	
Inel.		JEF-2.2	7431				0.3672	2.265	
		ENDF/B-VI	7431				0.5288	2.460	
		JENDL-3.2	7431				0.5925	2.338	
		BROND-2	7482				0.3672	2.265	
n,2n		JEF-2.2	7431				2.224	0.7557-02	
		ENDF/B-VI	7431				1.992	0.5076-02	
		JENDL-3.2	7431				2.054	0.4599-02	
		BROND-2	7482				2.224	0.7557-02	
n,3n		JEF-2.2	7431					0.1889-04	
		ENDF/B-VI	7431					0.6656-05	
		JENDL-3.2	7431					0.8422-05	
		BROND-2	7482					0.1889-04	

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
74-W -182	n,g	JEF-2.2	7431	20.57	18.27	596.8	0.3598-02	0.5293-01	
		ENDF/B-VI	7431	20.67	18.34	596.9	0.1119-02	0.7129-01	
		JENDL-3.2	7431	20.72	18.42	628.0	0.1000-02	0.6615-01	
		BROND-2	7482	21.01	18.80	602.0	0.7700-02	0.7376-01	
	n,p	JEF-2.2	7431				0.3318-02	0.1380-05	
		ENDF/B-VI	7431				0.3318-02	0.1388-05	
		JENDL-3.2	7431				0.4736-02	0.3807-05	
		BROND-2	7482				0.3318-02	0.1380-05	
	n,d	JENDL-3.2	7431				0.9132-03	0.4445-06	
	n,a	JEF-2.2	7431				0.1100-02	0.5486-06	
		ENDF/B-VI	7431				0.1100-02	0.5529-06	
		JENDL-3.2	7431				0.2097-02	0.4920-05	
		BROND-2	7482				0.1100-02	0.5486-06	
	74-W -183	Total	JEF-2.2	7434	13.44	12.28	804.2	5.338	6.876
			ENDF/B-VI	7434	13.45	12.32	804.8	5.431	6.731
			JENDL-3.2	7434	12.51	11.37	800.1	5.210	6.823
BROND-2			7483	15.99	14.82	771.3	5.338	6.874	
Elast.		JEF-2.2	7434	3.419	3.417	448.6	2.741	4.192	
		ENDF/B-VI	7434	3.425	3.425	448.7	2.926	3.819	
		JENDL-3.2	7434	2.388	2.386	465.2	2.596	3.933	
		BROND-2	7483	5.440	5.437	413.3	2.733	4.166	
Inel.		JEF-2.2	7434			0.1409	0.3271	2.616	
		ENDF/B-VI	7434			0.5072	0.4993	2.841	
		JENDL-3.2	7434			0.4085	0.4842	2.819	
		BROND-2	7483			0.1409	0.3271	2.616	
n,2n		JEF-2.2	7434				2.263	0.2959-01	
		ENDF/B-VI	7434				2.022	0.1873-01	
		JENDL-3.2	7434				2.127	0.1819-01	
		BROND-2	7483				2.263	0.2959-01	
n,3n		JEF-2.2	7434					0.2723-04	
		ENDF/B-VI	7434					0.1630-04	
		JENDL-3.2	7434					0.1782-04	
		BROND-2	7483					0.2738-04	
n,g		JEF-2.2	7434	10.02	8.866	355.4	0.3711-02	0.3968-01	
		ENDF/B-VI	7434	10.07	8.896	355.5	0.1276-02	0.5426-01	
		JENDL-3.2	7434	10.12	8.976	334.4	0.1000-02	0.5020-01	
		BROND-2	7483	10.56	9.383	357.6	0.1180-01	0.6233-01	
n,p		JEF-2.2	7434				0.4004-02	0.1799-05	
		ENDF/B-VI	7434				0.3283-02	0.1485-05	
		JENDL-3.2	7434				0.3266-02	0.2902-05	
		BROND-2	7483				0.4004-02	0.1799-05	
n,d	JENDL-3.2	7434				0.7091-03	0.3409-06		

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
74-W -183	n,a	JEF-2.2	7434				0.1100-02	0.5490-06
		ENDF/B-VI	7434				0.1100-02	0.5529-06
		JENDL-3.2	7434				0.1906-02	0.7019-05
		BROND-2	7483	0.3558-13	0.7058-13	0.1384-06	0.1100-02	0.3335-05
74-W -184	Total	JEF-2.2	7437	6.052	5.849	299.5	5.338	6.991
		ENDF/B-VI	7437	6.052	5.864	299.8	5.459	6.896
		JENDL-3.2	7437	9.072	8.881	307.6	5.215	6.728
		BROND-2	7484	6.617	6.416	296.4	5.339	6.957
	Elast.	JEF-2.2	7437	4.297	4.299	283.2	2.745	4.620
		ENDF/B-VI	7437	4.302	4.304	283.5	2.991	4.380
		JENDL-3.2	7437	7.373	7.372	291.6	2.538	4.277
		BROND-2	7484	4.786	4.786	280.4	2.741	4.578
	Inel.	JEF-2.2	7437				0.3023	2.319
		ENDF/B-VI	7437				0.4745	2.478
		JENDL-3.2	7437				0.4903	2.404
		BROND-2	7484				0.3023	2.319
	n,2n	JEF-2.2	7437				2.281	0.1184-01
		ENDF/B-VI	7437				2.007	0.8520-02
		JENDL-3.2	7437				2.181	0.7766-02
		BROND-2	7484				2.281	0.1184-01
	n,3n	JEF-2.2	7437				0.3826-02	0.4473-04
		ENDF/B-VI	7437				0.1948-03	0.2637-04
		JENDL-3.2	7437				0.1688-02	0.1949-04
		BROND-2	7484				0.3826-02	0.4473-04
	n,g	JEF-2.2	7437	1.751	1.550	16.30	0.3851-02	0.4210-01
		ENDF/B-VI	7437	1.760	1.555	16.31	0.1061-02	0.3580-01
		JENDL-3.2	7437	1.698	1.505	16.02	0.1000-02	0.3752-01
		BROND-2	7484	1.834	1.631	16.01	0.6800-02	0.4944-01
	n,p	JEF-2.2	7437				0.2693-02	0.1067-05
		ENDF/B-VI	7437				0.2290-02	0.9159-06
		JENDL-3.2	7437				0.2044-02	0.1195-05
		BROND-2	7484				0.2693-02	0.1067-05
	n,d	JENDL-3.2	7437				0.2482-03	0.1357-06
	n,a	JEF-2.2	7437				0.1100-02	0.5486-06
		ENDF/B-VI	7437				0.6325-03	0.3179-06
		JENDL-3.2	7437				0.7207-03	0.1033-05
BROND-2		7484				0.1100-02	0.5486-06	
74-W -186	Total	JEF-2.2	7443	37.73	33.51	3471.	5.338	7.004
		ENDF/B-VI	7443	37.93	33.62	3474.	5.488	6.871
		JENDL-3.2	7443	38.05	33.76	3569.	5.224	6.720
		BROND-2	7486	38.36	34.30	3460.	5.337	6.962

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
74-W -186	Elast.	JEF-2.2	7443	0.2390	0.2429	2952.	2.744	4.694	
		ENDF/B-VI	7443	0.2399	0.2437	2954.	3.052	4.356	
		JENDL-3.2	7443	0.1468	0.1435	3222.	2.323	4.275	
		BROND-2	7486	0.8872-01	0.9468-01	2932.	2.742	4.650	
	Inel.	JEF-2.2	7443				0.2508	2.261	
		ENDF/B-VI	7443				0.4490	2.466	
		JENDL-3.2	7443				0.4303	2.395	
		BROND-2	7486				0.2508	2.261	
	n,2n	JEF-2.2	7443				2.322	0.1428-01	
		ENDF/B-VI	7443				1.962	0.1052-01	
		JENDL-3.2	7443				2.432	0.1223-01	
		BROND-2	7486				2.322	0.1428-01	
	n,3n	JEF-2.2	7443				0.1733-01	0.7830-04	
		ENDF/B-VI	7443				0.3439-01	0.5179-04	
		JENDL-3.2	7443				0.3378-01	0.4358-04	
		BROND-2	7486				0.1733-01	0.7830-04	
	n,g	JEF-2.2	7443		37.49	33.26	518.7	0.3956-02	0.3692-01
		ENDF/B-VI	7443		37.69	33.38	519.1	0.1005-02	0.3514-01
		JENDL-3.2	7443		37.91	33.62	346.6	0.1000-02	0.3592-01
		BROND-2	7486		38.27	34.21	528.6	0.6300-02	0.3799-01
	n,p	JEF-2.2	7443				0.1450-02	0.5914-06	
		ENDF/B-VI	7443				0.9280-03	0.3815-06	
		JENDL-3.2	7443				0.3129-02	0.1674-05	
		BROND-2	7486				0.1450-02	0.5914-06	
	n,d	JENDL-3.2	7443				0.1144-03	0.7222-07	
	n,a	JEF-2.2	7443				0.1100-02	0.5486-06	
		ENDF/B-VI	7443				0.3630-03	0.1824-06	
		JENDL-3.2	7443				0.1434-02	0.1055-05	
BROND-2		7486				0.1100-02	0.5486-06		
75-Ree- 0	Total	BROND-2	7500	103.5	92.67	1163.	5.231	6.825	
	Elast.	BROND-2	7500	14.04	13.98	335.8	2.710	4.689	
	Inel.	BROND-2	7500				0.8769	1.999	
	n,2n	BROND-2	7500				1.600	0.6860-02	
	n,3n	BROND-2	7500				0.3776-01	0.4154-04	
	n,g	BROND-2	7500	89.46	78.69	827.2	0.3661-02	0.1303	
75-Re-185	Total	JEF-2.2	7525	130.7	118.1	2140.	5.218	6.804	
		ENDF/B-VI	7525	121.3	109.2	2008.	5.299	6.783	
	Elast.	JEF-2.2	7525	16.63	16.49	395.5	2.709	4.733	
		ENDF/B-VI	7525	8.906	8.838	279.0	2.679	4.240	

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
75-Re-185	Inel.	JEF-2.2	7525				0.8857	1.919
		ENDF/B-VI	7525				0.4427	2.360
	n,2n	JEF-2.2	7525				1.620	0.5320-02
		ENDF/B-VI	7525				2.190	0.7047-02
n,3n	JEF-2.2	7525		0.1196-04				
	ENDF/B-VI	7525		0.1527-04				
n,g	JEF-2.2	7525	114.1	101.6	1744.	0.4340-02	0.1468	
	ENDF/B-VI	7525	112.6	100.3	1729.	0.1100-02	0.1816	
75-Re-187	Total	JEF-2.2	7531	84.66	74.87	581.7	5.229	6.830
		ENDF/B-VI	7531	87.12	77.84	530.8	5.312	6.783
	Elast.	JEF-2.2	7531	9.812	9.775	295.1	2.698	4.651
		ENDF/B-VI	7531	9.969	9.937	237.2	2.699	4.180
	Inel.	JEF-2.2	7531				0.8717	2.050
		ENDF/B-VI	7531				0.3885	2.479
	n,2n	JEF-2.2	7531				1.588	0.7773-02
		ENDF/B-VI	7531				2.239	0.9670-02
n,3n	JEF-2.2	7531				0.6000-01	0.5895-04	
	ENDF/B-VI	7531				0.9349-03	0.3145-04	
n,g	JEF-2.2	7531	74.86	65.13	286.6	0.3270-02	0.1199	
	ENDF/B-VI	7531	76.83	67.85	293.5	0.1082-02	0.1170	
76-Os- 0	Total	BROND-2	7600	31.42	29.50	518.3	5.126	6.866
	Elast.	BROND-2	7600	15.47	15.46	337.8	2.688	4.562
		Inel.	BROND-2	7600			0.7243-01	0.2880
	n,2n	BROND-2	7600				2.130	0.1033-01
		n,3n	BROND-2	7600				0.1517-01
	n,g	BROND-2	7600	15.95	14.04	180.4	0.1000-02	0.7705-01
		n,p	BROND-2	7600				0.2880-02
	n,a	BROND-2	7600				0.4290-03	0.5195-06
77-Ir- 0	Total	BROND-2	7700	432.0	384.2	2505.	5.216	6.663
	Elast.	BROND-2	7700	14.66	14.46	313.2	2.796	4.086
		Inel.	BROND-2	7700			0.2456-01	0.2000

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
77-Ir-0	n,2n	BROND-2	7700				2.200	0.6418-02
	n,3n	BROND-2	7700					0.1401-04
	n,g	BROND-2	7700	417.4	369.8	2192.	0.3200-02	0.1207
	n,p	BROND-2	7700				0.4200-02	0.8921-05
	n,a	BROND-2	7700				0.7900-02	0.2736-04
79-Au-197	Total	JEF-2.2	7925	105.7	94.82	1936.	5.118	6.516
		ENDF/B-VI	7925	106.1	95.45	1940.	5.305	6.654
		BROND-2	7925	105.7	94.82	1937.	5.293	6.653
		CENDL-2	2790	105.7	94.82	1936.	5.361	6.661
	Elast.	JEF-2.2	7925	6.860	6.841	373.9	2.617	4.477
		ENDF/B-VI	7925	6.871	6.855	375.4	2.640	4.654
		BROND-2	7925	6.860	6.841	374.8	2.631	4.653
		CENDL-2	2790	6.860	6.841	374.0	2.821	4.673
	Inel.	JEF-2.2	7925			0.1974-01	0.2979	1.956
		ENDF/B-VI	7925			0.1758-01	0.5414	1.917
		BROND-2	7925			0.1758-01	0.5414	1.917
		CENDL-2	2790			0.2145-01	0.5418	1.905
	n,2n	JEF-2.2	7925				2.200	0.4734-02
		ENDF/B-VI	7925				2.122	0.4416-02
		BROND-2	7925				2.120	0.4416-02
		CENDL-2	2790				1.999	0.4588-02
	n,3n	JEF-2.2	7925					0.9822-05
		ENDF/B-VI	7925					0.7981-05
		BROND-2	7925					0.7981-05
		CENDL-2	2790					0.9293-05
	n,g	JEF-2.2	7925	98.81	87.98	1562.	0.1000-02	0.7858-01
		ENDF/B-VI	7925	99.25	88.60	1565.	0.1327-02	0.7808-01
		BROND-2	7925	98.81	87.98	1562.	0.1320-02	0.7784-01
		CENDL-2	2790	98.81	87.98	1560.		0.4229-03
	n,p	JEF-2.2	7925				0.1800-02	0.1946-05
		ENDF/B-VI	7925	0.4215-20	0.8432-20	0.1667-13	0.1800-02	0.1946-05
		BROND-2	7925	0.4280-20	0.8497-20	0.1667-13	0.1800-02	0.1946-05
		CENDL-2	2790	0.2955-12	0.5866-12	0.1151-05	0.1815-02	0.2408-04
	n,d	CENDL-2	2790				0.6677-05	0.2390-07
	n,t	CENDL-2	2790				0.1066-05	0.2070-07
	n,He3	CENDL-2	2790				0.3800-16	0.4290-11
	n,a	JEF-2.2	7925				0.2500-03	0.6366-06
		ENDF/B-VI	7925	0.4215-20	0.8432-20	0.1667-13	0.2500-03	0.6366-06
		BROND-2	7925	0.4280-20	0.8497-20	0.1667-13	0.2500-03	0.6366-06
		CENDL-2	2790	0.6402-17	0.1281-16	0.2531-10	0.3295-03	0.2089-06

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
82-Pb- 0	Total	JEF-2.2	8200	11.41	11.40	136.9	5.400	6.362
		JENDL-3.2	8200	11.28	11.26	134.7	5.418	6.411
		BROND-2	8202	11.47	11.45	138.1	5.397	6.426
		CENDL-2	2820	11.47	11.45	136.7	5.380	6.409
	Elast.	JEF-2.2	8200	11.22	11.23	136.6	2.899	5.668
		JENDL-3.2	8200	11.10	11.10	134.6	2.464	5.597
		BROND-2	8202	11.29	11.30	138.0	2.729	5.728
		CENDL-2	2820	11.29	11.30	136.6	2.879	5.724
	Inel.	JEF-2.2	8200				0.4051	0.6862
		JENDL-3.2	8200				0.4294	0.8041
		BROND-2	8202				0.4100	0.6868
		CENDL-2	2820				0.5957	0.6764
	n,2n	JEF-2.2	8200				2.096	0.6161-02
		JENDL-3.2	8200				2.525	0.7108-02
		BROND-2	8202				2.260	0.8397-02
		CENDL-2	2820				1.903	0.6158-02
	n,3n	JEF-2.2	8200					0.1065-04
		JENDL-3.2	8200					0.6266-05
		BROND-2	8202					0.1106-04
		CENDL-2	2820					0.5662-05
	n,g	JEF-2.2	8200	0.1782	0.1579	0.9489-01	0.1911-03	0.2276-02
		JENDL-3.2	8200	0.1743	0.1545	0.1303	0.5818-03	0.2740-02
		BROND-2	8202	0.1729	0.1532	0.1373	0.1100-02	0.2255-02
		CENDL-2	2820	0.1762	0.1616	0.1163	0.1097-02	0.2354-02
n,p	JENDL-3.2	8200				0.7559-03	0.8395-06	
	BROND-2	8202				0.3200-03	0.1528-06	
	CENDL-2	2820				0.1261-02	0.8769-06	
n,a	JENDL-3.2	8200		0.9779E-32	0.1362-09	0.8219-03	0.7533-06	
	BROND-2	8202				0.6000-03	0.2691-05	
82-Pb-204	Total	JENDL-3.2	8225	11.89	11.83	145.8	5.337	6.505
		BROND-2	8211	11.69	11.61	145.1	5.430	6.786
	Elast.	JENDL-3.2	8225	11.22	11.22	143.9	2.754	5.157
		BROND-2	8211	11.01	11.02	143.1	2.784	5.646
	Inel.	JENDL-3.2	8225				0.4881	1.325
		BROND-2	8211				0.5175	1.134
	n,2n	JENDL-3.2	8225				2.095	0.3402-02
		BROND-2	8211				2.126	0.4073-02
	n,3n	JENDL-3.2	8225					0.1729-05
		BROND-2	8211					0.1993-05
	n,g	JENDL-3.2	8225	0.6611	0.5859	1.775	0.8150-05	0.1928-01
		BROND-2	8211	0.6694	0.5931	1.942	0.1100-02	0.2436-02

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
82-Pb-204	n,p	JENDL-3.2	8225				0.2900-03	0.7438-06
		BROND-2	8211		0.1163-13	0.4130-07	0.5400-03	0.7681-05
	n,d	BROND-2	8211				0.8500-05	0.1020-06
	n,t	BROND-2	8211				0.2400-04	0.8403-07
	n,He3	BROND-2	8211				0.2400-05	0.6650-07
n,a	JENDL-3.2	8225				0.1590-03	0.2978-06	
	BROND-2	8211		0.1098-13	0.3900-07	0.3400-03	0.1793-05	
82-Pb-206	Total	ENDF/B-VI	8231	11.32	11.31	129.4	5.282	6.190
		JENDL-3.2	8231	10.09	10.09	121.9	5.353	6.285
		BROND-2	8212	10.18	10.18	123.8	5.255	7.234
	Elast.	ENDF/B-VI	8231	11.29	11.30	129.3	2.842	5.102
		JENDL-3.2	8231	10.06	10.06	121.8	2.396	4.960
		BROND-2	8212	10.15	10.15	123.4	2.768	6.170
	Inel.	ENDF/B-VI	8231				0.3373	1.078
		JENDL-3.2	8231				0.4110	1.316
		BROND-2	8212				0.5617	1.057
	n,2n	ENDF/B-VI	8231				2.081	0.4150-02
		JENDL-3.2	8231				2.539	0.5512-02
		BROND-2	8212				1.920	0.4030-02
	n,3n	ENDF/B-VI	8231					0.2500-05
		JENDL-3.2	8231					0.3885-05
		BROND-2	8212					0.7800-06
	n,g	ENDF/B-VI	8231	0.2999-01	0.2651-01	0.9127-01	0.1206-02	0.5114-02
		JENDL-3.2	8231	0.3063-01	0.2714-01	0.8885-01	0.1840-04	0.4138-02
		BROND-2	8212	0.3065-01	0.2967-01	0.3382	0.1100-02	0.3588-02
	n,p	ENDF/B-VI	8231				0.1295-02	0.1369-05
		JENDL-3.2	8231				0.1549-02	0.2133-05
		BROND-2	8212				0.2030-02	0.1739-05
	n,d	BROND-2	8212				0.6520-05	0.7215-08
	n,t	ENDF/B-VI	8231				0.3586-03	0.1821-06
		BROND-2	8212				0.1210-03	0.8034-07
	n,He3	BROND-2	8212				0.3060-05	0.6385-08
	n,a	ENDF/B-VI	8231				0.1756-02	0.1960-05
		JENDL-3.2	8231		0.1892E-31	0.2635-09	0.3705-03	0.5303-06
BROND-2		8212		0.6654-15	0.2364-08	0.2700-02	0.2991-05	
82-Pb-207	Total	ENDF/B-VI	8234	11.49	11.44	132.3	5.417	6.489
		JENDL-3.2	8234	11.99	11.91	137.4	5.351	6.404
		BROND-2	8213	10.95	10.88	129.2	5.358	6.670

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
82-Pb-207	Elast.	ENDF/B-VI	8234	10.78	10.80	132.0	2.966	5.472
		JENDL-3.2	8234	11.28	11.28	137.0	2.376	5.127
		BROND-2	8213	10.24	10.24	128.8	3.017	5.666
	Inel.	ENDF/B-VI	8234				0.4063	1.004
		JENDL-3.2	8234				0.3252	1.265
		BROND-2	8213				0.3943	0.9952
	n,2n	ENDF/B-VI	8234				2.040	0.7790-02
		JENDL-3.2	8234				2.651	0.9603-02
		BROND-2	8213				1.940	0.7446-02
	n,3n	ENDF/B-VI	8234					0.5746-05
		JENDL-3.2	8234					0.6755-05
		BROND-2	8213					0.4481-05
	n,g	ENDF/B-VI	8234	0.7151	0.6355	0.3797	0.1048-02	0.5967-02
		JENDL-3.2	8234	0.7123	0.6313	0.3776	0.3728-05	0.3274-02
		BROND-2	8213	0.7143	0.6330	0.4024	0.1100-02	0.2269-02
	n,p	ENDF/B-VI	8234				0.1194-02	0.1665-05
		JENDL-3.2	8234				0.1210-02	0.1193-05
		BROND-2	8213				0.1200-02	0.7833-05
	n,d	BROND-2	8213				0.5900-04	0.1615-06
	n,t	ENDF/B-VI	8234				0.3586-03	0.1861-06
BROND-2		8213				0.2700-03	0.3450-06	
n,He3	BROND-2	8213				0.7500-05	0.2486-07	
n,a	ENDF/B-VI	8234	0.9307-14	0.1862-13	0.3680-07	0.1536-02	0.2262-05	
	JENDL-3.2	8234				0.7541-03	0.7109-06	
	BROND-2	8213	0.9680-07	0.8995-07	0.1561-05	0.7400-03	0.5056-05	
82-Pb-208	Total	ENDF/B-VI	8237	11.43	11.44	139.1	5.510	6.442
		JENDL-3.2	8237	11.50	11.50	139.2	5.364	6.461
		BROND-2	8214	8.419	8.423	103.3	5.360	7.245
	Elast.	ENDF/B-VI	8237	11.43	11.44	139.1	3.010	6.103
		JENDL-3.2	8237	11.50	11.50	139.2	2.410	6.093
		BROND-2	8214	8.419	8.422	103.2	2.923	6.959
	Inel.	ENDF/B-VI	8237				0.4103	0.3314
		JENDL-3.2	8237				0.4803	0.3606
		BROND-2	8214				0.4651	0.2781
	n,2n	ENDF/B-VI	8237				2.086	0.6576-02
		JENDL-3.2	8237				2.467	0.6874-02
		BROND-2	8214				1.970	0.6277-02
	n,3n	ENDF/B-VI	8237					0.9880-05
		JENDL-3.2	8237					0.7277-05
		BROND-2	8214					0.4257-05

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
82-Pb-208	n,g	ENDF/B-VI	8237	0.4933-03	0.4380-03	0.1088-02	0.1200-02	0.8679-03	
		JENDL-3.2	8237	0.5009-03	0.4440-03	0.1171-02	0.1100-02	0.1426-02	
		BROND-2	8214	0.4663-03	0.4132-03	0.1080-02	0.1100-02	0.1786-02	
	n,p	ENDF/B-VI	8237				0.5170-03	0.2618-06	
		JENDL-3.2	8237				0.2660-03	0.1782-06	
		BROND-2	8214				0.4100-03	0.4035-06	
	n,t	ENDF/B-VI	8237				0.3586-03	0.1819-06	
		BROND-2	8214				0.6400-04	0.7482-07	
	n,He3	BROND-2	8214				0.4500-04	0.1655-06	
	n,a	ENDF/B-VI	8237	0.1461-13	0.2923-13	0.5778-07	0.1120-02	0.2169-05	
		JENDL-3.2	8237				0.9492-03	0.7652-06	
		BROND-2	8214		0.5160-14	0.1833-07	0.1000-02	0.1289-05	
	83-Bi-209	Total	JEF-2.2	8325	9.411	9.387	145.6	5.331	6.592
			ENDF/B-VI	8325	9.361	9.378	144.7	5.346	6.516
JENDL-3.2			8325	9.354	9.350	144.2	5.370	6.494	
BROND-2			8301	8.563	8.564	136.3	5.307	6.792	
Elast.		JEF-2.2	8325	9.332	9.336	145.3	2.727	5.858	
		ENDF/B-VI	8325	9.346	9.354	144.7	2.810	5.819	
		JENDL-3.2	8325	9.320	9.320	144.0	2.804	5.793	
		BROND-2	8301	8.533	8.534	136.1	2.707	6.088	
Inel.		JEF-2.2	8325				0.2943	0.7229	
		ENDF/B-VI	8325				0.3923	0.6900	
		JENDL-3.2	8325				0.3611	0.6907	
		BROND-2	8301				0.3506	0.6949	
n,2n		JEF-2.2	8325				2.323	0.7824-02	
		ENDF/B-VI	8325				2.140	0.7225-02	
		JENDL-3.2	8325				2.201	0.6343-02	
		BROND-2	8301				2.250	0.8435-02	
n,3n		JEF-2.2	8325					0.1108-04	
		ENDF/B-VI	8325					0.8930-05	
		JENDL-3.2	8325					0.1136-04	
		BROND-2	8301					0.1261-04	
n,g		JEF-2.2	8325	0.3724-01	0.3299-01	0.2244	0.1090-02	0.3315-02	
		ENDF/B-VI	8325	0.3388-01	0.3008-01	0.1921	0.1000-02	0.2660-02	
		JENDL-3.2	8325	0.3386-01	0.3001-01	0.1912	0.1000-02	0.4635-02	
		BROND-2	8301	0.3445-01	0.3052-01	0.1930	0.1100-02	0.1609-02	
n,p		JEF-2.2	8325				0.5400-03	0.4647-06	
		ENDF/B-VI	8325	0.1947-13	0.3896-13	0.7700-07	0.9425-03	0.5638-05	
		JENDL-3.2	8325				0.6836-03	0.5188-06	
		BROND-2	8301				0.1100-02	0.3139-05	
n,d		ENDF/B-VI	8325				0.2215-03	0.2765-06	
		JENDL-3.2	8325				0.5272-03	0.4208-06	
	BROND-2	8301				0.2000-03	0.3442-06		

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
83-Bi-209	n,t	ENDF/B-VI	8325				0.6530-04	0.4084-07
		BROND-2	8301				0.1250-03	0.9365-07
	n,He3	ENDF/B-VI	8325				0.1400-10	0.6271-12
		BROND-2	8301				0.5000-05	0.2178-08
	n,a	JEF-2.2	8325				0.1600-02	0.1043-05
		ENDF/B-VI	8325		0.6373-13	0.1275-12	0.2520-06	0.7260-03
	JENDL-3.2	8325				0.4792-03	0.1261-05	
	BROND-2	8301		0.1504-03	0.1505-03	0.1832-02	0.4500-03	0.6618-04
88-Ra-223	Total	JENDL-3.2	8825	143.4	128.9	871.7	6.181	7.558
	Elast.	JENDL-3.2	8825	12.43	12.43	432.5	3.121	5.244
	Incl.	JENDL-3.2	8825			0.2555	0.5911	2.134
	n,2n	JENDL-3.2	8825				1.381	0.7574-01
	n,3n	JENDL-3.2	8825				1.032	0.2964-03
	Fiss.	JENDL-3.2	8825	0.7005	0.6208	0.7667	0.5570-01	0.5570-01
	n,g	JENDL-3.2	8825	130.1	115.3	435.4	0.3735-05	0.4611-01
88-Ra-224	Total	JENDL-3.2	8828	24.60	23.26	352.6	6.136	7.553
	Elast.	JENDL-3.2	8828	12.53	12.53	323.1	3.124	5.510
	Incl.	JENDL-3.2	8828			0.1198-01	0.5904	1.977
	n,2n	JENDL-3.2	8828				1.083	0.3021-01
	n,3n	JENDL-3.2	8828				1.338	0.3810-03
	n,g	JENDL-3.2	8828	12.01	10.64	28.84	0.2743-05	0.3146-01
88-Ra-225	Total	JENDL-3.2	8831	113.0	101.4	987.5	6.146	7.575
	Elast.	JENDL-3.2	8831	12.43	12.43	388.3	3.128	5.272
	Incl.	JENDL-3.2	8831			0.6995	0.5893	2.153
	n,2n	JENDL-3.2	8831				0.9343	0.9417-01
	n,3n	JENDL-3.2	8831				1.495	0.4425-03
	n,g	JENDL-3.2	8831	100.1	88.64	593.2	0.1568-05	0.5055-01

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
88-Ra-226	Total	JENDL-3.2	8834	22.62	21.89	495.2	6.157	7.571
	Elast.	JENDL-3.2	8834	9.823	9.806	213.0	3.132	5.514
	Incl.	JENDL-3.2	8834			0.4150-01	0.5884	1.913
	n,2n	JENDL-3.2	8834				0.7557	0.3235-01
	n,3n	JENDL-3.2	8834				1.670	0.5135-03
	Fiss.	JENDL-3.2	8834	0.7005-05	0.6205-05	0.5660-05	0.1150-01	0.3485-03
	n,g	JENDL-3.2	8834	12.80	12.08	281.9	0.3197-04	0.1084
89-Ac-225	Total	JENDL-3.2	8925	1018.	902.3	1863.	6.148	7.572
	Elast.	JENDL-3.2	8925	12.43	12.43	270.7	3.128	5.233
	Incl.	JENDL-3.2	8925			0.2915	0.5895	2.132
	n,2n	JENDL-3.2	8925				1.800	0.2660-01
	n,3n	JENDL-3.2	8925				0.6291	0.2022-03
	n,g	JENDL-3.2	8925	1001.	886.8	1588.	0.3750-05	0.1708
	89-Ac-226	Total	JENDL-3.2	8928	112.8	101.4	1916.	5.614
Elast.		JENDL-3.2	8928	12.43	12.43	232.8	3.175	5.214
Incl.		JENDL-3.2	8928				0.5022-02	2.111
n,2n		JENDL-3.2	8928				1.576	0.6012-01
n,3n		JENDL-3.2	8928				0.8614	0.2526-03
n,g		JENDL-3.2	8928	100.1	88.69	1680.	0.5705-08	0.1749
89-Ac-227		Total	JENDL-3.2	8931	917.9	928.0	1987.	6.161
	Elast.	JENDL-3.2	8931	12.43	12.43	328.2	3.136	5.305
	Incl.	JENDL-3.2	8931			0.9560	0.5872	2.264
	n,2n	JENDL-3.2	8931				1.311	0.2854-01
	n,3n	JENDL-3.2	8931				1.011	0.3398-03
	Fiss.	JENDL-3.2	8931	0.2902-03	0.2572-03	0.1762-03	0.1240	0.1265-01
	n,g	JENDL-3.2	8931	902.5	912.6	1655.	0.1389-08	0.3550-02

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
90-Th-227	Total	JENDL-3.2	9025	1757.	1558.	1849.	5.621	7.588
	Elast.	JENDL-3.2	9025	12.43	12.43	223.8	3.170	5.228
	Incl.	JENDL-3.2	9025			0.6358-01	0.5018-02	1.628
	n,2n	JENDL-3.2	9025				0.3300	0.4377-01
	n,3n	JENDL-3.2	9025				0.6561-01	0.3940-04
	Fiss.	JENDL-3.2	9025	202.1	179.1	206.1	2.050	0.4834
	n,g	JENDL-3.2	9025	1536.	1361.	1416.	0.4993-07	0.1968
90-Th-228	Total	JENDL-3.2	9028	133.4	120.0	1583.	5.628	7.578
	Elast.	JENDL-3.2	9028	12.83	12.81	413.9	3.173	5.467
	Incl.	JENDL-3.2	9028			0.7453-01	0.4136-02	1.914
	n,2n	JENDL-3.2	9028				1.637	0.1012-01
	n,3n	JENDL-3.2	9028				0.2690	0.1013-03
	Fiss.	JENDL-3.2	9028	0.3002	0.2661	0.1331	0.5495	0.1051
	n,g	JENDL-3.2	9028	119.9	106.6	1169.	0.2404-09	0.8026-01
90-Th-229	Total	JENDL-3.2	9031	104.2	96.33	1855.	6.192	7.621
	Elast.	JENDL-3.2	9031	9.960	9.903	177.2	3.144	5.151
	Incl.	JENDL-3.2	9031			2.178	0.5847	1.716
	n,2n	JENDL-3.2	9031				0.3025	0.5461-01
	n,3n	JENDL-3.2	9031				0.1102	0.4893-04
	Fiss.	JENDL-3.2	9031	30.83	27.79	440.1	2.050	0.4834
	n,g	JENDL-3.2	9031	63.39	58.62	1234.	0.7848-05	0.2086
90-Th-230	Total	JEF-2.2	9034	29.21	26.66	1224.	6.305	8.449
		JENDL-3.2	9034	32.36	30.11	1369.	5.644	7.621
	Elast.	JEF-2.2	9034	6.095	6.072	372.1	3.521	5.394
		JENDL-3.2	9034	9.796	9.771	330.1	3.167	5.468
	Incl.	JEF-2.2	9034			0.2145	0.2697	2.835
		JENDL-3.2	9034			0.9086-01	0.1045-01	1.884

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
90-Th-230	n,2n	JEF-2.2	9034				1.676	0.2015-01
		JENDL-3.2	9034				1.340	0.1359-01
	n,3n	JEF-2.2	9034				0.1774	0.5341-04
		JENDL-3.2	9034				0.5290	0.1521-03
	Fiss.	JEF-2.2	9034			0.4808-02	0.6500	0.1796
		JENDL-3.2	9034				0.5973	0.1614
	n,g	JEF-2.2	9034	23.11	20.59	851.3	0.1103-01	0.2000-01
		JENDL-3.2	9034	22.56	20.33	1038.	0.1616-07	0.8946-01
90-Th-232	Total	JEF-2.2	9040	19.26	18.38	272.5	5.700	7.260
		ENDF/B-VI	9040	20.44	19.54	303.7	5.610	7.695
		JENDL-3.2	9040	21.14	20.26	308.8	5.740	7.655
		BROND-2	9032	20.17	19.29	300.5	5.744	7.670
	Elast.	JEF-2.2	9040	11.85	11.84	187.4	2.900	4.824
		ENDF/B-VI	9040	13.02	12.99	218.1	2.814	4.805
		JENDL-3.2	9040	13.73	13.73	224.7	2.683	4.631
		BROND-2	9032	12.75	12.74	214.2	2.964	5.299
	Inel.	JEF-2.2	9040			0.2010	0.3700	2.241
		ENDF/B-VI	9040			0.3091-01	0.3970	2.703
		JENDL-3.2	9040			0.1763	0.7260	2.839
		BROND-2	9032			0.1605	0.3700	2.181
	n,2n	JEF-2.2	9040				1.560	0.2059-01
		ENDF/B-VI	9040				1.430	0.1940-01
		JENDL-3.2	9040				1.181	0.1799-01
		BROND-2	9032				1.560	0.2057-01
	n,3n	JEF-2.2	9040				0.5000	0.1718-03
		ENDF/B-VI	9040				0.6200	0.2293-03
		JENDL-3.2	9040				0.8000	0.2406-03
		BROND-2	9032				0.5000	0.1766-03
	Fiss.	JEF-2.2	9040				0.3600	0.7075-01
		ENDF/B-VI	9040				0.3430	0.7428-01
		JENDL-3.2	9040				0.3500	0.7769-01
		BROND-2	9032			0.4177-03		0.7181-09
	n,g	JEF-2.2	9040	7.409	6.535	84.96	0.5291-02	0.1022
		ENDF/B-VI	9040	7.421	6.564	85.47	0.1500-02	0.9333-01
		JENDL-3.2	9040	7.404	6.533	83.89		0.8693-01
		BROND-2	9032	7.409	6.545	86.28	0.1500-02	0.9439-01
90-Th-233	Total	JENDL-3.2	9043	1479.	1313.	862.5	5.670	7.633
	Elast.	JENDL-3.2	9043	13.03	13.03	207.0	3.172	5.329
	Inel.	JENDL-3.2	9043			0.8030	0.1580-01	2.027
	n,2n	JENDL-3.2	9043				1.160	0.7426-01

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
90-Th-233	n,3n	JENDL-3.2	9043				0.9170	0.3093-03
	Fiss.	JENDL-3.2	9043	15.01	13.35	10.25	0.4100	0.1113
	n,g	JENDL-3.2	9043	1451.	1286.	642.8	0.6071-08	0.8856-01
90-Th-234	Total	JENDL-3.2	9046	14.80	14.63	385.4	5.680	7.663
	Elast.	JENDL-3.2	9046	13.03	13.03	291.8	3.173	5.535
	Inel.	JENDL-3.2	9046			0.1219	0.3956-01	1.961
	n,2n	JENDL-3.2	9046				1.040	0.2635-01
	n,3n	JENDL-3.2	9046				1.282	0.4540-03
	Fiss.	JENDL-3.2	9046				0.1500	0.3627-01
	n,g	JENDL-3.2	9046	1.751	1.552	93.25	0.1541-06	0.1021
91-Pa-231	Total	JEF-2.2	9131	235.6	208.4	717.4	6.438	8.451
		ENDF/B-VI	9131	236.2	209.2	718.0	6.438	8.456
		JENDL-3.2	9131	210.8	189.2	742.9	5.746	7.538
	Elast.	JEF-2.2	9131	8.464	8.329	122.2	2.782	4.779
		ENDF/B-VI	9131	8.538	8.410	122.1	2.782	4.780
		JENDL-3.2	9131	9.974	9.833	148.6	2.556	4.201
	Inel.	JEF-2.2	9131			0.7074	0.1867	2.284
		ENDF/B-VI	9131			0.7074	0.1867	2.284
		JENDL-3.2	9131			0.7744	0.2520	2.218
	n,2n	JEF-2.2	9131				1.328	0.1360-01
		ENDF/B-VI	9131				1.328	0.1360-01
		JENDL-3.2	9131				0.7240	0.7430-02
	n,3n	JEF-2.2	9131				0.5725-01	0.3009-04
		ENDF/B-VI	9131				0.5725-01	0.3009-04
		JENDL-3.2	9131				0.1340	0.4815-04
	Fiss.	JEF-2.2	9131	0.1040-01	0.9350-02	0.1208	1.972	0.9811
		ENDF/B-VI	9131	0.1042-01	0.9381-02	0.1210	1.972	0.9810
		JENDL-3.2	9131	0.1966-01	0.1698-01	0.5863-01	2.080	0.8262
n,g	JEF-2.2	9131	227.1	200.1	594.3	0.1122	0.3936	
	ENDF/B-VI	9131	227.8	200.7	595.0	0.1122	0.3937	
	JENDL-3.2	9131	200.8	179.3	593.4		0.2797	
91-Pa-232	Total	JENDL-3.2	9134	1176.	1030.	783.9	5.660	7.682
	Elast.	JENDL-3.2	9134	12.25	12.25	166.2	3.167	5.107

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
91-Pa-232	Incl.	JENDL-3.2	9134			0.4909-01	0.4995-02	1.370
	n,2n	JENDL-3.2	9134				0.8412	0.3023-01
	n,3n	JENDL-3.2	9134				0.2660	0.9284-04
	Fiss.	JENDL-3.2	9134	700.5	620.8	307.4	1.381	1.099
	n,g	JENDL-3.2	9134	462.5	395.0	308.2	0.5597-08	0.7481-01
91-Pa-233	Total	JEF-2.2	9137	49.92	44.41	989.3	5.430	7.324
		JENDL-3.2	9137	53.10	47.76	1033.	5.761	7.576
	Elast.	JEF-2.2	9137	8.433	8.415	132.6	3.015	4.503
		JENDL-3.2	9137	13.05	13.02	170.8	2.557	4.247
	Incl.	JEF-2.2	9137			2.216	0.8800-01	2.168
		JENDL-3.2	9137			0.9160	0.3440	2.692
	n,2n	JEF-2.2	9137				0.5195	0.5623-02
		JENDL-3.2	9137				1.451	0.1436-01
	n,3n	JEF-2.2	9137				0.2100	0.9330-04
		JENDL-3.2	9137				0.4510	0.1472-03
	Fiss.	JEF-2.2	9137				1.588	0.4602
		JENDL-3.2	9137				0.9580	0.3225
	n,g	JEF-2.2	9137	41.49	36.00	854.4	0.6664-02	0.1869
		JENDL-3.2	9137	40.04	34.73	860.8		0.2921
92-U -232	Total	JEF-2.2	9219	157.3	136.8	874.9	6.379	8.579
		ENDF/B-VI	9219	157.8	137.3	875.5	6.379	8.577
		JENDL-3.2	9219	162.4	141.5	703.4	5.774	7.656
	Elast.	JEF-2.2	9219	7.544	7.505	143.0	3.006	4.711
		ENDF/B-VI	9219	7.590	7.551	143.1	3.019	4.714
		JENDL-3.2	9219	10.81	10.76	177.6	3.230	5.107
	Incl.	JEF-2.2	9219			0.1024	0.1916	1.268
		ENDF/B-VI	9219			0.1024	0.1916	1.268
		JENDL-3.2	9219			0.8918-01	0.1942-01	0.5002
	n,2n	JEF-2.2	9219				1.712	0.1023-01
		ENDF/B-VI	9219				1.712	0.1023-01
		JENDL-3.2	9219				0.1500	0.6564-03
	n,3n	JEF-2.2	9219				0.1765	0.5897-04
		ENDF/B-VI	9219				0.1765	0.5897-04
		JENDL-3.2	9219				0.5000-02	0.1258-05
	Fiss.	JEF-2.2	9219	77.15	66.76	415.6	1.238	2.485
		ENDF/B-VI	9219	77.39	66.99	415.9	1.238	2.485
		JENDL-3.2	9219	76.68	66.41	352.7	2.370	2.015

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
92-U -232	n,g	JEF-2.2	9219	72.63	62.54	316.2	0.5605-01	0.1047
		ENDF/B-VI	9219	72.80	62.74	316.4	0.5605-01	0.1047
		JENDL-3.2	9219	74.89	64.37	172.8	0.1438-11	0.2871-01
92-U -233	Total	JEF-2.2	9222	586.1	520.2	1028.	6.028	7.275
		ENDF/B-VI	9222	587.6	522.6	1028.	5.771	7.672
		JENDL-3.2	9222	588.7	522.3	1046.	5.920	7.682
		BROND-2	9211	588.2	522.7	1057.	5.858	7.674
	Elast.	JEF-2.2	9222	14.43	14.20	141.9	3.042	4.229
		ENDF/B-VI	9222	12.64	12.46	145.0	2.825	4.810
		JENDL-3.2	9222	11.99	11.96	144.6	2.891	4.473
		BROND-2	9211	12.63	12.58	138.7	2.855	4.524
	Inel.	JEF-2.2	9222			0.1495	0.8800-01	1.132
		ENDF/B-VI	9222			0.8269-01	0.1452	0.8882
		JENDL-3.2	9222			0.6387-01	0.1748	1.184
		BROND-2	9211			0.4728-01	0.3200	1.211
	n,2n	JEF-2.2	9222				0.4800	0.1047-01
		ENDF/B-VI	9222				0.5110	0.6514-02
		JENDL-3.2	9222				0.4069	0.4884-02
		BROND-2	9211				0.4110	0.3973-02
	n,3n	JEF-2.2	9222				0.4000-01	0.1153-04
		ENDF/B-VI	9222				0.3000-02	0.3643-05
		JENDL-3.2	9222				0.2049-02	0.3717-05
		BROND-2	9211				0.5000-02	0.5016-05
	Fiss.	JEF-2.2	9222	525.8	464.2	751.9	2.370	1.841
		ENDF/B-VI	9222	529.2	468.4	746.4	2.270	1.911
		JENDL-3.2	9222	531.4	469.0	763.4	2.450	1.949
		BROND-2	9211	530.1	468.7	779.1	2.263	1.873
	n,g	JEF-2.2	9222	45.96	41.80	134.2	0.7528-02	0.6327-01
		ENDF/B-VI	9222	46.00	41.78	136.3	0.2000-02	0.5686-01
		JENDL-3.2	9222	45.28	41.36	137.9	0.1371-07	0.7165-01
		BROND-2	9211	45.46	41.47	139.1	0.1000-02	0.6174-01
92-U -234	Total	JEF-2.2	9225	115.9	103.1	887.2	5.531	8.528
		ENDF/B-VI	9225	116.1	103.5	887.4	5.558	8.529
		JENDL-3.2	9225	119.3	106.8	941.1	5.720	7.717
	Elast.	JEF-2.2	9225	12.33	12.25	227.2	2.782	5.341
		ENDF/B-VI	9225	12.33	12.27	227.4	2.780	5.342
		JENDL-3.2	9225	19.45	19.28	309.6	2.733	4.739
	Inel.	JEF-2.2	9225			0.1761	0.1500	1.793
		ENDF/B-VI	9225			0.1761	0.1500	1.793
		JENDL-3.2	9225			0.2212	0.3202	1.541
	n,2n	JEF-2.2	9225				0.3820	0.2033-02
		ENDF/B-VI	9225				0.3820	0.2033-02
		JENDL-3.2	9225				0.4730	0.6082-02

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
92-U -234	n,3n	JEF-2.2	9225				0.1500	0.3545-04	
		ENDF/B-VI	9225				0.1500	0.3545-04	
		JENDL-3.2	9225				0.1270	0.3321-04	
	Fiss.	JEF-2.2	9225	0.4645	0.4068	0.6175	2.059	1.215	
		ENDF/B-VI	9225	0.4651	0.4083	0.6176	2.051	1.215	
		JENDL-3.2	9225	0.6222-02	0.5537-02	0.8093	2.067	1.211	
	n,g	JEF-2.2	9225	103.1	90.47	659.2	0.1030-01	0.1771	
		ENDF/B-VI	9225	103.3	90.79	659.3	0.1029-01	0.1772	
		JENDL-3.2	9225	99.80	87.54	630.4	0.2577-04	0.2177	
	92-U -235	Total	JEF-2.2	9228	697.5	606.2	556.5	5.862	7.657
			ENDF/B-VI	9228	700.6	612.2	557.5	5.860	7.663
			JENDL-3.2	9228	698.3	608.4	556.3	5.865	7.722
BROND-2			9241	697.0	611.7	566.1	5.848	7.686	
Elast.		JEF-2.2	9228	15.11	15.02	152.8	2.840	4.409	
		ENDF/B-VI	9228	15.12	15.04	152.4	2.840	4.418	
		JENDL-3.2	9228	15.06	14.97	152.9	2.869	4.595	
		BROND-2	9241	14.05	14.02	153.3	2.860	4.320	
Inel.		JEF-2.2	9228			0.1376	0.4177	1.917	
		ENDF/B-VI	9228			0.1375	0.4177	1.917	
		JENDL-3.2	9228			0.1549	0.3503	1.785	
		BROND-2	9241			0.1838	0.3110	2.017	
n,2n		JEF-2.2	9228				0.5036	0.1369-01	
		ENDF/B-VI	9228				0.5036	0.1369-01	
		JENDL-3.2	9228				0.5429	0.1348-01	
		BROND-2	9241				0.5677	0.1544-01	
n,3n		JEF-2.2	9228				0.3758-01	0.1923-04	
		ENDF/B-VI	9228				0.3758-01	0.1922-04	
		JENDL-3.2	9228				0.4179-01	0.1649-04	
		BROND-2	9241				0.4200-01	0.1954-04	
Fiss.		JEF-2.2	9228	583.2	504.4	271.6	2.060	1.219	
		ENDF/B-VI	9228	586.2	509.9	272.2	2.060	1.218	
		JENDL-3.2	9228	584.4	506.8	270.9	2.054	1.237	
		BROND-2	9241	584.3	510.2	270.0	2.068	1.239	
n,g		JEF-2.2	9228	98.95	86.32	132.0	0.1213-02	0.9519-01	
		ENDF/B-VI	9228	99.23	87.28	132.8	0.1204-02	0.9557-01	
		JENDL-3.2	9228	98.83	86.66	132.4	0.1607-06	0.9169-01	
		BROND-2	9241	98.70	87.47	142.7	0.1000-02	0.9336-01	
92-U -236		Total	JEF-2.2	9231	13.30	12.71	601.2	5.672	8.114
			ENDF/B-VI	9231	14.09	13.48	591.7	5.821	7.734
	JENDL-3.2		9231	13.72	13.11	603.3	5.743	7.754	
	BROND-2		9251	18.62	18.01	3779.	5.819	12.82	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
92-U -236	Elast.	JEF-2.2	9231	8.091	8.085	250.6	2.782	5.404
		ENDF/B-VI	9231	8.880	8.853	246.0	2.489	4.514
		JENDL-3.2	9231	8.355	8.349	253.7	2.757	4.818
		BROND-2	9251	13.55	13.51	3444.	2.803	9.978
	Inel.	JEF-2.2	9231			0.1754	0.1500	1.941
		ENDF/B-VI	9231			0.1823	0.5950	2.550
		JENDL-3.2	9231			0.2030	0.3260	2.231
		BROND-2	9251			0.1775	0.4170	2.164
	n,2n	JEF-2.2	9231				0.5500	0.1011-01
		ENDF/B-VI	9231				0.5500	0.1011-01
		JENDL-3.2	9231				0.4873	0.9629-02
		BROND-2	9251				0.8550	0.8330-02
	n,3n	JEF-2.2	9231				0.5500	0.1624-03
		ENDF/B-VI	9231				0.5500	0.1624-03
		JENDL-3.2	9231				0.5229	0.1379-03
		BROND-2	9251				0.1650	0.5245-04
	Fiss.	JEF-2.2	9231	0.4685-01	0.4166-01	4.382	1.628	0.5820
		ENDF/B-VI	9231	0.4720-01	0.4207-01	4.462	1.634	0.5737
		JENDL-3.2	9231	0.6133-01	0.5445-01	4.363	1.659	0.5861
		BROND-2	9251	1.651	1.456	4.435	1.582	0.5750
	n,g	JEF-2.2	9231	5.162	4.583	346.0	0.1030-01	0.1765
		ENDF/B-VI	9231	5.143	4.578	341.0	0.2074-02	0.9525-01
		JENDL-3.2	9231	5.298	4.703	345.0	0.3666-06	0.1092
		BROND-2	9251	3.422	3.046	330.6	0.1000-02	0.9309-01
92-U -237	Total	JEF-2.2	9234	487.8	428.4	485.7	5.881	7.407
		ENDF/B-VI	9234	488.0	429.9	485.9	5.884	7.417
		JENDL-3.2	9234	478.6	416.7	1331.	5.865	7.779
	Elast.	JEF-2.2	9234	9.205	9.200	174.4	3.020	4.685
		ENDF/B-VI	9234	9.220	9.220	171.0	3.022	4.695
		JENDL-3.2	9234	24.44	23.81	203.2	3.144	5.285
	Inel.	JEF-2.2	9234			0.4708-01	0.2671	1.913
		ENDF/B-VI	9234			0.4708-01	0.2671	1.913
		JENDL-3.2	9234			0.7057	0.1263-01	1.609
	n,2n	JEF-2.2	9234				0.3214	0.2754-01
		ENDF/B-VI	9234				0.3214	0.2754-01
		JENDL-3.2	9234				0.2882	0.4560-01
	n,3n	JEF-2.2	9234				0.7786	0.3142-03
		ENDF/B-VI	9234				0.7786	0.3142-03
		JENDL-3.2	9234				0.5899	0.1691-03
	Fiss.	JEF-2.2	9234	2.003	1.755	4.892	1.491	0.6968
		ENDF/B-VI	9234	2.004	1.761	4.934	1.491	0.6969
		JENDL-3.2	9234	1.703	1.483	43.90	1.832	0.7412

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
92-U -237	n,g	JEF-2.2	9234	476.6	417.5	306.3	0.3000-02	0.8365-01
		ENDF/B-VI	9234	476.7	418.9	310.0	0.3000-02	0.8369-01
		JENDL-3.2	9234	452.5	391.5	1083.	0.1000-02	0.9413-01
92-U -238	Total	JEF-2.2	9237	12.10	11.79	597.0	5.899	7.810
		ENDF/B-VI	9237	12.17	11.87	597.0	5.934	7.792
		JENDL-3.2	9237	12.10	11.80	596.2	5.804	7.805
		BROND-2	9261	11.64	11.33	583.3	5.780	7.733
		CENDL-2	2922	12.37	12.06	609.5	5.860	7.824
	Elast.	JEF-2.2	9237	9.384	9.377	319.0	2.878	4.825
		ENDF/B-VI	9237	9.443	9.440	319.1	2.888	4.860
		JENDL-3.2	9237	9.380	9.377	318.3	2.704	4.851
		BROND-2	9261	8.923	8.916	307.2	2.891	5.003
		CENDL-2	2922	9.658	9.656	323.8	3.170	5.125
	Inel.	JEF-2.2	9237			0.2181	0.6274	2.598
		ENDF/B-VI	9237			0.2181	0.5950	2.544
		JENDL-3.2	9237			0.1940	0.6983	2.566
		BROND-2	9261			0.2321	0.3340	2.337
		CENDL-2	2922			0.2620	0.3286	2.301
	n,2n	JEF-2.2	9237				0.9100	0.1479-01
		ENDF/B-VI	9237				0.8706	0.1763-01
		JENDL-3.2	9237				0.9100	0.1479-01
		BROND-2	9261				0.9200	0.1812-01
		CENDL-2	2922				0.8980	0.1683-01
	n,3n	JEF-2.2	9237				0.3500	0.1254-03
		ENDF/B-VI	9237				0.4496	0.1372-03
		JENDL-3.2	9237				0.3500	0.1293-03
		BROND-2	9261				0.4790	0.1669-03
		CENDL-2	2922				0.3554	0.1288-03
	Fiss.	JEF-2.2	9237	0.1178-04	0.1045-04	0.2159-02	1.130	0.2998
		ENDF/B-VI	9237	0.1183-04	0.1052-04	0.2156-02	1.130	0.2990
		JENDL-3.2	9237	0.1178-04	0.1045-04	0.1895-02	1.136	0.3036
		BROND-2	9261			0.7756-05	1.155	0.3025
		CENDL-2	2922	0.4751-04	0.4213-04	0.1885-02	1.107	0.3007
n,g	JEF-2.2	9237	2.720	2.415	277.7	0.8800-03	0.7019-01	
	ENDF/B-VI	9237	2.729	2.430	277.7	0.1000-02	0.7095-01	
	JENDL-3.2	9237	2.718	2.414	277.7	0.1943-02	0.6764-01	
	BROND-2	9261	2.716	2.416	275.9	0.2700-02	0.7127-01	
	CENDL-2	2922	2.711	2.407	285.3	0.1263-02	0.7891-01	
93-Np-236	Total	JENDL-3.2	9343	3486.	3094.	1429.	5.852	7.763
	Elast.	JENDL-3.2	9343	12.30	12.30	145.4	3.142	5.082
	Inel.	JENDL-3.2	9343			0.4683-08	0.1003-01	0.5590
	n,2n	JENDL-3.2	9343				0.1911	0.9027-02

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
93-Np-236	n,3n	JENDL-3.2	9343				0.6746-01	0.2273-04	
	Fiss.	JENDL-3.2	9343	2772.	2455.	1022.	2.444	1.920	
	n,g	JENDL-3.2	9343	701.5	621.2	258.5	0.1000-02	0.1892	
93-Np-237	Total	JEF-2.2	9346	196.0	173.8	814.3	5.731	7.582	
		ENDF/B-VI	9346	196.2	174.4	815.3	5.735	7.567	
		JENDL-3.2	9346	192.2	171.2	835.4	5.539	7.836	
		CENDL-2	2931	208.7	184.9	852.9	5.934	7.898	
	Elast.	JEF-2.2	9346	14.79	14.59	155.9	2.793	4.577	
		ENDF/B-VI	9346	14.90	14.70	155.9	2.696	4.344	
		JENDL-3.2	9346	27.50	27.18	169.7	2.606	5.010	
		CENDL-2	2931	27.59	27.26	172.7	2.996	4.957	
	Inel.	JEF-2.2	9346			0.2516	0.2678	1.515	
		ENDF/B-VI	9346			0.2807	0.4137	1.718	
		JENDL-3.2	9346			0.3174	0.1056	1.319	
		CENDL-2	2931			0.3535	0.3003	1.463	
	n,2n	JEF-2.2	9346				0.4893	0.3123-02	
		ENDF/B-VI	9346				0.4817	0.4012-02	
		JENDL-3.2	9346				0.4925	0.3995-02	
		CENDL-2	2931				0.4331	0.3554-02	
	n,3n	JEF-2.2	9346				0.3615-01	0.1371-04	
		ENDF/B-VI	9346				0.1155-01	0.7617-05	
		JENDL-3.2	9346				0.8793-01	0.3297-04	
		CENDL-2	2931				0.4488-01	0.2372-04	
	Fiss.	JEF-2.2	9346	0.1803-01	0.1572-01	0.2066	2.111	1.290	
		ENDF/B-VI	9346	0.1804-01	0.1577-01	0.2143	2.129	1.305	
		JENDL-3.2	9346	0.2249-01	0.1958-01	0.8868	2.247	1.321	
		CENDL-2	2931	0.1922-01	0.1663-01	0.2086	2.160	1.292	
	n,g	JEF-2.2	9346	181.2	159.2	657.9	0.3812-01	0.1963	
		ENDF/B-VI	9346	181.2	159.7	658.9	0.3500-02	0.1958	
		JENDL-3.2	9346	164.7	144.0	664.4	0.2286-06	0.1800	
		CENDL-2	2931	181.1	157.7	679.6	0.3570-07	0.1825	
	93-Np-238	Total	JEF-2.2	9349	2253.	1979.	1154.	6.051	7.844
			ENDF/B-VI	9349	2261.	1994.	1141.	10.40	10.40
JENDL-3.2			9349	2535.	2252.	1284.	5.871	7.801	
Elast.		JEF-2.2	9349	20.87	20.65	142.9	2.908	4.861	
		ENDF/B-VI	9349	21.38	21.21	141.2	10.40	10.40	
		JENDL-3.2	9349	12.44	12.44	147.8	3.145	5.137	
Inel.		JEF-2.2	9349			0.8694-01	0.2000	1.444	
		JENDL-3.2	9349			0.2859-01	0.1012-01	1.109	
n,2n		JEF-2.2	9349				0.5800	0.1752-01	
		JENDL-3.2	9349				0.2529	0.1009-01	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
93-Np-238	n,3n	JEF-2.2	9349				0.5000	0.1035-03	
		JENDL-3.2	9349				0.2296	0.6090-04	
	Fiss.	JEF-2.2	9349	2029.	1781.	910.0	1.850	1.487	
		ENDF/B-VI	9349	2035.	1793.	899.8		0.2148-02	
		JENDL-3.2	9349	2072.	1837.	932.4	2.236	1.427	
	n,g	JEF-2.2	9349	203.0	178.2	100.6	0.1060-01	0.3391-01	
		ENDF/B-VI	9349	203.7	179.4	100.5		0.3036-03	
		JENDL-3.2	9349	450.4	399.2	200.6	0.1000-02	0.1153	
	93-Np-239	Total	JEF-2.2	9352	47.65	43.46	604.5	5.523	7.854
			ENDF/B-VI	9352	87.80	79.25	617.7	5.523	7.866
JENDL-3.2			9352	47.64	43.46	604.5	5.523	7.854	
Elast.		JEF-2.2	9352	10.53	10.53	160.2	2.640	4.745	
		ENDF/B-VI	9352	10.56	10.54	160.4	2.640	4.753	
		JENDL-3.2	9352	10.52	10.52	160.2	2.640	4.745	
Inel.		JEF-2.2	9352			0.5118	0.7367-01	1.449	
		ENDF/B-VI	9352			0.5119	0.7367-01	1.449	
		JENDL-3.2	9352			0.5118	0.7367-01	1.449	
n,2n		JEF-2.2	9352				0.1430	0.4455-02	
		ENDF/B-VI	9352				0.1430	0.4455-02	
		JENDL-3.2	9352				0.1430	0.4455-02	
n,3n		JEF-2.2	9352				0.2463	0.7323-04	
		ENDF/B-VI	9352				0.2463	0.7323-04	
		JENDL-3.2	9352				0.2463	0.7323-04	
Fiss.		JEF-2.2	9352			0.4124-01	2.420	1.448	
		ENDF/B-VI	9352			0.4122-01	2.420	1.448	
		JENDL-3.2	9352			0.4123-01	2.420	1.448	
n,g		JEF-2.2	9352	37.05	32.82	443.6	0.1000-04	0.2018	
		ENDF/B-VI	9352	77.49	68.49	456.5	0.1000-04	0.2023	
		JENDL-3.2	9352	37.03	32.81	443.6	0.1000-04	0.2018	
94-Pu-236	Total	JEF-2.2	9428	345.6	305.5	799.4	6.921	7.516	
		JENDL-3.2	9428	331.1	287.9	696.2	6.515	8.474	
	Elast.	JEF-2.2	9428	20.23	20.06	171.8	3.313	4.587	
		JENDL-3.2	9428	16.38	16.20	247.0	3.426	5.839	
	Inel.	JEF-2.2	9428			0.9825-01	0.1120	0.7469	
		JENDL-3.2	9428			0.1239	0.9393-04	0.4174	
	n,2n	JEF-2.2	9428				0.6580	0.3984-02	
		JENDL-3.2	9428				0.1737-01	0.4190-03	
	n,3n	JEF-2.2	9428				0.2000	0.7680-04	
		JENDL-3.2	9428				0.7040-03	0.6973-06	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
94-Pu-236	Fiss.	JEF-2.2	9428	162.7	142.7	314.5	2.630	2.132
		JENDL-3.2	9428	169.4	146.2	49.02	3.067	2.060
	n,g	JEF-2.2	9428	162.7	142.7	313.0	0.8000-02	0.4560-01
		JENDL-3.2	9428	145.4	125.5	399.9	0.4024-05	0.1539
94-Pu-237	Total	JEF-2.2	9431	2656.	2358.	1403.	6.429	7.564
	Elast.	JEF-2.2	9431	11.77	11.77	139.8	3.321	4.253
	Incl.	JEF-2.2	9431			0.1065-01	0.4800-02	0.2663
	n,2n	JEF-2.2	9431				0.3080	0.2765-02
	n,3n	JEF-2.2	9431				0.1000	0.3961-04
	Fiss.	JEF-2.2	9431	2103.	1863.	1069.	2.693	3.010
	n,g	JEF-2.2	9431	540.7	479.0	190.2	0.2400-02	0.3186-01
94-Pu-238	Total	JEF-2.2	9434	583.7	497.4	363.5	5.869	7.826
		ENDF/B-VI	9434	600.7	511.8	409.7	7.076	7.610
		JENDL-3.2	9434	586.8	500.9	425.9	6.876	8.853
		BROND-2	9411	583.7	497.3	371.9	5.929	7.841
	Elast.	JEF-2.2	9434	19.92	19.47	197.7	2.756	4.635
		ENDF/B-VI	9434	20.42	19.96	237.0	3.266	4.675
		JENDL-3.2	9434	28.58	27.89	249.9	3.584	6.051
		BROND-2	9411	21.80	21.18	197.7	2.794	4.622
	Incl.	JEF-2.2	9434			0.1300	0.3150	1.143
		ENDF/B-VI	9434			0.9260-01		0.8149
		JENDL-3.2	9434			0.1453	0.1155-02	0.7097
		BROND-2	9411			0.1451	0.3490	1.163
	n,2n	JEF-2.2	9434				0.5500-01	0.1044-02
		ENDF/B-VI	9434				0.6304	0.5826-02
		JENDL-3.2	9434				0.5147	0.4677-02
		BROND-2	9411				0.1340	0.4334-03
	n,3n	JEF-2.2	9434				0.3500-01	0.1120-04
		ENDF/B-VI	9434				0.5000	0.1348-03
		JENDL-3.2	9434				0.5445-01	0.3316-04
		BROND-2	9411					0.6139-06
	Fiss.	JEF-2.2	9434	17.28	14.74	22.70	2.702	1.968
		ENDF/B-VI	9434	17.09	14.48	20.95	2.668	1.965
		JENDL-3.2	9434	17.89	15.17	22.85	2.721	1.984
		BROND-2	9411	17.21	14.62	26.99	2.652	1.949
n,g	JEF-2.2	9434	546.6	463.2	142.9	0.2100-02	0.7728-01	
	ENDF/B-VI	9434	563.8	477.4	151.6	0.1143-01	0.1489	
	JENDL-3.2	9434	540.3	457.9	152.9	0.5861-08	0.1014	
	BROND-2	9411	544.7	461.5	147.1	0.1000-02	0.1057	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
94-Pu-239	Total	JEF-2.2	9437	1027.	981.2	630.4	5.938	7.805
		ENDF/B-VI	9437	1033.	987.6	628.4	5.852	7.790
		JENDL-3.2	9437	1027.	981.5	625.8	5.990	7.731
		BROND-2	9421	1029.	988.6	624.1	5.823	7.726
		CENDL-2	2941	1027.	981.2	629.2	5.895	7.753
	Elast.	JEF-2.2	9437	8.805	8.618	155.9	2.802	4.566
		ENDF/B-VI	9437	7.990	7.780	152.4	2.830	4.421
		JENDL-3.2	9437	7.990	7.806	150.6	2.984	4.425
		BROND-2	9421	7.422	7.203	141.7	2.834	4.344
		CENDL-2	2941	8.846	8.658	154.8	2.879	4.648
	Inel.	JEF-2.2	9437			0.8085	0.4027	1.369
		ENDF/B-VI	9437			1.023	0.3930	1.535
		JENDL-3.2	9437			0.9573	0.3663	1.449
		BROND-2	9421			0.6330	0.4750	1.518
		CENDL-2	2941			0.5286	0.3469	1.244
	n,2n	JEF-2.2	9437				0.3899	0.3986-02
		ENDF/B-VI	9437				0.2570	0.7379-02
		JENDL-3.2	9437				0.2901	0.4846-02
		BROND-2	9421				0.1300	0.6532-02
		CENDL-2	2941				0.2250	0.3442-02
	n,3n	JEF-2.2	9437				0.3312-03	0.1967-05
		ENDF/B-VI	9437				0.1206-01	0.1160-04
		JENDL-3.2	9437				0.1150-01	0.6947-05
		BROND-2	9421				0.1050	0.2109-04
		CENDL-2	2941				0.1337-01	0.1047-04
	Fiss.	JEF-2.2	9437	747.6	698.0	289.5	2.333	1.800
		ENDF/B-VI	9437	751.4	703.0	293.7	2.358	1.784
		JENDL-3.2	9437	748.0	699.0	293.0	2.340	1.797
		BROND-2	9421	750.8	706.0	296.9	2.275	1.799
		CENDL-2	2941	747.6	698.0	289.4	2.426	1.803
	n,g	JEF-2.2	9437	270.5	274.5	184.1	0.1433-08	0.6488-01
		ENDF/B-VI	9437	273.7	276.8	181.2	0.2276-02	0.4167-01
		JENDL-3.2	9437	270.8	274.8	181.2	0.7935-08	0.5467-01
		BROND-2	9421	270.2	275.5	184.9	0.4000-02	0.5811-01
		CENDL-2	2941	270.5	274.5	184.6	0.9345-08	0.5412-01
	n,d	JEF-2.2	9437				0.5243-06	0.6097-08
n,t	JEF-2.2	9437				0.2733-06	0.2470-07	
n,He3	JEF-2.2	9437				0.3479-06	0.1055-07	
94-Pu-240	Total	JEF-2.2	9440	290.4	264.1	9366.	5.893	7.864
		ENDF/B-VI	9440	292.0	265.1	9405.	5.785	7.830
		JENDL-3.2	9440	291.4	265.4	8912.	5.896	7.742
		BROND-2	9431	290.4	266.4	9260.	5.919	7.777

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
94-Pu-240	Elast.	JEF-2.2	9440	1.512	1.392	913.8	3.202	4.996	
		ENDF/B-VI	9440	0.9583	0.8677	898.7	2.633	4.766	
		JENDL-3.2	9440	1.646	1.531	804.3	2.716	4.369	
		BROND-2	9431	1.543	1.431	825.6	2.702	4.605	
	Inel.	JEF-2.2	9440			0.3309	0.7274-02	1.418	
		ENDF/B-VI	9440			0.1847	0.4481	1.640	
		JENDL-3.2	9440			0.2131	0.4326	1.930	
		BROND-2	9431			0.2736	0.4812	1.753	
	n,2n	JEF-2.2	9440				0.4272	0.4920-02	
		ENDF/B-VI	9440				0.4600	0.3073-02	
		JENDL-3.2	9440				0.3731	0.4447-02	
		BROND-2	9431				0.3670	0.2744-02	
	n,3n	JEF-2.2	9440				0.1298	0.4169-04	
		ENDF/B-VI	9440				0.2750-01	0.1035-04	
		JENDL-3.2	9440				0.1135	0.3372-04	
		BROND-2	9431				0.1240	0.1635-04	
	Fiss.	JEF-2.2	9440		0.6768-01	0.6126-01	3.736	2.122	1.349
		ENDF/B-VI	9440		0.6434-01	0.5859-01	2.712	2.215	1.340
		JENDL-3.2	9440		0.5882-01	0.5344-01	2.545	2.253	1.343
		BROND-2	9431		0.5908-01	0.5400-01	3.595	2.237	1.326
	n,g	JEF-2.2	9440		288.9	262.7	8448.	0.8000-03	0.9461-01
		ENDF/B-VI	9440		291.0	264.1	8504.	0.1000-02	0.8087-01
		JENDL-3.2	9440		289.6	263.8	8105.	0.8000-03	0.9522-01
		BROND-2	9431		288.8	264.9	8430.	0.2800-02	0.8985-01
94-Pu-241	Total	JEF-2.2	9443	1387.	1284.	888.7	5.804	8.098	
		ENDF/B-VI	9443	1388.	1291.	890.6	5.973	7.736	
		JENDL-3.2	9443	1386.	1276.	895.0	5.799	7.857	
		BROND-2	9441	1383.	1286.	946.0	5.932	8.017	
	Elast.	JEF-2.2	9443		11.20	11.01	148.7	3.292	5.171
		ENDF/B-VI	9443		11.23	11.06	150.0	3.276	4.245
		JENDL-3.2	9443		11.36	11.16	152.5	3.290	5.192
		BROND-2	9441		8.889	8.773	151.6	2.801	4.758
	Inel.	JEF-2.2	9443				0.8655-01	0.2217-03	1.048
		ENDF/B-VI	9443				0.2389	0.2790	1.782
		JENDL-3.2	9443				0.2029-01	0.2002-02	0.8700
		BROND-2	9441				0.1091	0.2300	1.551
	n,2n	JEF-2.2	9443					0.1781	0.2503-01
		ENDF/B-VI	9443					0.1050	0.2400-01
		JENDL-3.2	9443					0.1143	0.2356-01
		BROND-2	9441					0.5000	0.9751-02
	n,3n	JEF-2.2	9443					0.1495	0.4972-04
		ENDF/B-VI	9443					0.1280	0.4533-04
		JENDL-3.2	9443					0.9500-01	0.3997-04
		BROND-2	9441					0.1780	0.4281-04

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
94-Pu-241	Fiss.	JEF-2.2	9443	1013.	945.2	570.8	2.182	1.626	
		ENDF/B-VI	9443	1013.	949.8	571.3	2.184	1.601	
		JENDL-3.2	9443	1013.	938.7	563.3	2.298	1.651	
		BROND-2	9441	1015.	946.4	593.7	2.220	1.626	
	n,g	JEF-2.2	9443	363.3	327.8	169.2	0.7724-08	0.2264	
		ENDF/B-VI	9443	364.0	330.0	169.0	0.1099-02	0.8485-01	
		JENDL-3.2	9443	361.6	326.3	179.2	0.1050-06	0.1205	
		BROND-2	9441	359.8	331.3	200.6	0.3400-02	0.7011-01	
		<hr/>							
		94-Pu-242	Total	JEF-2.2	9446	26.86	24.89	1437.	5.918
ENDF/B-VI	9446			26.95	24.95	1624.	6.016	7.977	
JENDL-3.2	9446			27.14	25.15	1453.	5.954	7.953	
BROND-2	9451			26.96	24.91	1475.	5.967	8.049	
Elast.	JEF-2.2		9446	8.319	8.299	319.8	3.163	5.375	
	ENDF/B-VI		9446	7.747	7.725	351.3	3.102	5.105	
	JENDL-3.2		9446	8.337	8.315	323.0	2.921	4.858	
	BROND-2		9451	8.274	8.259	288.7	3.012	5.076	
Inel.	JEF-2.2		9446			0.2819	0.8378-02	1.272	
	ENDF/B-VI		9446			0.2641	0.2354	1.677	
	JENDL-3.2		9446			0.2193	0.2790	1.881	
	BROND-2		9451			0.2458	0.2880	1.701	
n,2n	JEF-2.2		9446				0.4541	0.8224-02	
	ENDF/B-VI		9446				0.4172	0.7938-02	
	JENDL-3.2		9446				0.4333	0.8236-02	
	BROND-2		9451				0.2560	0.6185-02	
n,3n	JEF-2.2		9446				0.3031	0.9396-04	
	ENDF/B-VI		9446				0.3021	0.7927-04	
	JENDL-3.2		9446				0.2892	0.9159-04	
	BROND-2		9451				0.2800	0.6366-04	
Fiss.	JEF-2.2		9446	0.1450-01	0.1295-01	0.9418	1.991	1.123	
	ENDF/B-VI		9446	0.1044-02	0.9279-03	0.2277	1.974	1.113	
	JENDL-3.2		9446	0.2558-02	0.2280-02	0.2535	2.027	1.115	
	BROND-2		9451	0.1003-02	0.6966-03	16.58	2.130	1.192	
n,g	JEF-2.2		9446	18.52	16.58	1116.	0.8000-03	0.8906-01	
	ENDF/B-VI		9446	19.27	17.22	1272.	0.1600-02	0.7420-01	
	JENDL-3.2		9446	18.80	16.82	1130.	0.8000-03	0.8919-01	
	BROND-2		9451	18.69	16.65	1169.	0.4000-02	0.7335-01	
<hr/>									
94-Pu-243	Total		JEF-2.2	9449	289.2	256.3	988.1	5.682	7.859
			ENDF/B-VI	9449	290.6	258.1	990.0	5.710	7.864
	Elast.		JEF-2.2	9449	19.50	19.31	160.7	2.580	4.647
		ENDF/B-VI	9449	19.87	19.71	161.8	2.609	4.653	
	Inel.	JEF-2.2	9449			0.1870-01	0.1000	2.043	
		ENDF/B-VI	9449			0.1870-01	0.1000	2.043	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
94-Pu-243	n,2n	JEF-2.2	9449				0.2250	0.5858-01
		ENDF/B-VI	9449				0.2250	0.5858-01
	n,3n	JEF-2.2	9449				0.8750	0.5011-03
		ENDF/B-VI	9449				0.8750	0.5011-03
	Fiss.	JEF-2.2	9449	181.5	159.5	553.0	1.900	1.065
		ENDF/B-VI	9449	182.2	160.4	553.5	1.900	1.064
	n,g	JEF-2.2	9449	88.18	77.47	274.3	0.1600-02	0.4394-01
		ENDF/B-VI	9449	88.52	77.93	274.6	0.1600-02	0.4391-01
94-Pu-244	Total	JEF-2.2	9452	11.48	11.26	295.8	5.442	7.830
	Elast.	JEF-2.2	9452	9.645	9.648	190.1	3.076	4.891
	Incl.	JEF-2.2	9452			0.3030	0.1974-01	1.904
	n,2n	JEF-2.2	9452				0.2693	0.2492-01
	n,3n	JEF-2.2	9452				0.3800	0.1835-03
	Fiss.	JEF-2.2	9452			0.6598-01	1.695	0.9919
	n,g	JEF-2.2	9452	1.831	1.618	105.3	0.2800-02	0.1761-01
	95-Am-241	Total	JEF-2.2	9543	630.7	565.4	1600.	5.792
ENDF/B-VI			9543	636.1	566.3	1543.	5.496	7.808
JENDL-3.2			9543	614.7	545.6	1461.	5.741	7.812
BROND-2			9541	604.6	543.0	1578.	5.748	7.814
CENDL-2			2951	633.8	562.6	1542.	5.500	7.803
Elast.		JEF-2.2	9543	12.08	11.00	146.2	2.875	4.772
		ENDF/B-VI	9543	11.37	10.93	149.9	2.474	4.880
		JENDL-3.2	9543	11.15	10.74	151.2	2.724	4.875
		BROND-2	9541	13.36	12.80	157.8	2.843	4.602
		CENDL-2	2951	11.33	10.90	149.8	2.474	4.876
Incl.		JEF-2.2	9543			0.1302	0.2380	1.258
		ENDF/B-VI	9543			0.1553	0.1506	1.159
		JENDL-3.2	9543			0.1851	0.4994-01	1.338
		BROND-2	9541			0.2271	0.2620	1.603
		CENDL-2	2951			0.1553	0.1506	1.159
n,2n		JEF-2.2	9543				0.2707	0.2339-02
		ENDF/B-VI	9543				0.2035	0.1983-03
		JENDL-3.2	9543				0.2624	0.8605-03
		BROND-2	9541				0.3400	0.2406-02
		CENDL-2	2951				0.2035	0.1983-03

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
95-Am-241	n,3n	JEF-2.2	9543				0.1118-01	0.5508-05	
		ENDF/B-VI	9543				0.1387-02	0.2699-05	
		JENDL-3.2	9543				0.4674-01	0.2478-04	
		BROND-2	9541				0.5000-02	0.1808-05	
		CENDL-2	2951				0.1387-02	0.2699-05	
	Fiss.	JEF-2.2	9543	3.177	2.924	9.774	2.391	1.323	
		ENDF/B-VI	9543	3.153	2.839	8.260	2.666	1.387	
		JENDL-3.2	9543	3.019	2.712	7.365	2.660	1.359	
		BROND-2	9541	3.103	2.798	7.409	2.292	1.365	
		CENDL-2	2951	3.142	2.821	8.254	2.670	1.387	
	n,g	JEF-2.2	9543	615.5	551.4	1444.	0.5088-02	0.3221	
		ENDF/B-VI	9543	621.6	552.6	1385.	0.6895-03	0.3814	
		JENDL-3.2	9543	600.5	532.1	1303.	0.2299-06	0.2378	
		BROND-2	9541	588.2	527.4	1412.	0.1000-02	0.2386	
		CENDL-2	2951	619.3	548.9	1383.	0.6895-03	0.3809	
	95-Am-242	Total	JEF-2.2	9546	7622.	6754.	1783.	5.907	7.781
			ENDF/B-VI	9546	2564.	2256.	845.3	10.20	10.20
			JENDL-3.2	9546	7618.	6752.	1782.	5.913	7.780
			BROND-2	9542	7286.	6588.	4328.	5.917	7.790
		Elast.	JEF-2.2	9546	11.47	11.47	144.6	2.807	4.586
ENDF/B-VI			9546	29.23	28.94	149.1	10.20	10.20	
JENDL-3.2			9546	11.46	11.47	144.6	2.807	4.586	
BROND-2			9542	10.59	10.59	128.2	2.939	4.617	
Inel.		JEF-2.2	9546			0.2874-01	0.4020	1.212	
		JENDL-3.2	9546			0.2874-01	0.4020	1.212	
		BROND-2	9542			0.2964-01	0.1313	1.195	
n,2n		JEF-2.2	9546				0.1308	0.5101-02	
		JENDL-3.2	9546				0.1308	0.5101-02	
		BROND-2	9542				0.2812	0.2246-02	
n,3n		JEF-2.2	9546				0.1390	0.3826-04	
		JENDL-3.2	9546				0.1390	0.3826-04	
		BROND-2	9542				0.1435-01	0.5462-05	
Fiss.		JEF-2.2	9546	2103.	1863.	1248.	2.427	1.764	
		ENDF/B-VI	9546	2281.	2004.	623.9		0.1931-02	
		JENDL-3.2	9546	2102.	1863.	1248.	2.427	1.764	
		BROND-2	9542	2156.	1934.	1152.	2.550	1.846	
n,g		JEF-2.2	9546	5507.	4877.	389.7	0.4487-05	0.2107	
		ENDF/B-VI	9546	253.5	222.7	72.31		0.2725-03	
		JENDL-3.2	9546	5504.	4876.	389.7	0.4487-05	0.2107	
		BROND-2	9542	5079.	4302.	1225.	0.1115-02	0.1204	
95-Am-242m Total		JEF-2.2	9547	8709.	8408.	2038.	5.670	7.795	
		ENDF/B-VI	9547	8065.	7851.	2301.	6.206	7.064	
		JENDL-3.2	9547	7682.	7476.	1935.	5.914	7.780	
		BROND-2	9543	8614.	8573.	1920.	5.917	7.780	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
95-Am-242	Elast.	JEF-2.2	9547	13.76	14.27	144.3	1.908	4.504
		ENDF/B-VI	9547	5.903	6.610	140.6	3.035	4.536
		JENDL-3.2	9547	5.683	6.313	141.0	2.807	4.552
		BROND-2	9543	6.760	7.659	145.7	2.939	4.619
	Inel.	JEF-2.2	9547	0.1906-03	0.1906-03	0.2099-01	0.7475	1.324
		ENDF/B-VI	9547			0.3362-01	0.2400-01	0.2722
		JENDL-3.2	9547			0.4011-01	0.2823	1.258
		BROND-2	9543			0.4029-01	0.1313	1.195
	n,2n	JEF-2.2	9547			0.1940	0.1393-01	
		ENDF/B-VI	9547			0.1940	0.1393-01	
		JENDL-3.2	9547			0.1308	0.5101-02	
		BROND-2	9543			0.2812	0.2246-02	
	n,3n	JEF-2.2	9547			0.3500	0.9583-04	
		ENDF/B-VI	9547			0.3500	0.9252-04	
		JENDL-3.2	9547			0.1390	0.3826-04	
		BROND-2	9543			0.1435-01	0.5462-05	
	Fiss.	JEF-2.2	9547	6886.	6687.	1630.	2.470	1.842
		ENDF/B-VI	9547	6700.	6516.	1874.	2.600	2.222
		JENDL-3.2	9547	6420.	6243.	1549.	2.550	1.844
		BROND-2	9543	6985.	6942.	1528.	2.550	1.844
	n,g	JEF-2.2	9547	1809.	1707.	261.5	0.3704-04	0.7966-01
		ENDF/B-VI	9547	1359.	1328.	286.8	0.3200-02	0.2044-01
		JENDL-3.2	9547	1256.	1227.	244.8	0.8663-06	0.1196
		BROND-2	9543	1622.	1624.	245.7	0.1115-02	0.1197
95-Am-243	Total	JEF-2.2	9549	83.20	74.88	1989.	5.381	7.702
		ENDF/B-VI	9549	83.92	76.35	2012.	5.443	7.912
		JENDL-3.2	9549	86.18	78.05	1995.	5.764	7.884
		BROND-2	9544	84.49	76.60	1897.	5.765	7.884
	Elast.	JEF-2.2	9549	7.132	7.090	175.9	2.838	5.020
		ENDF/B-VI	9549	8.570	8.506	191.7	3.196	4.753
		JENDL-3.2	9549	7.499	7.447	172.1	2.726	4.865
		BROND-2	9544	7.407	7.361	174.5	2.884	4.591
	Inel.	JEF-2.2	9549			0.1540	0.1000-09	1.324
		ENDF/B-VI	9549			0.1903	0.2000-02	1.889
		JENDL-3.2	9549			0.2074	0.3085	1.750
		BROND-2	9544			0.2104	0.2661	2.023
	n,2n	JEF-2.2	9549			0.3700	0.6250-02	
		ENDF/B-VI	9549			0.4000-01	0.9851-03	
		JENDL-3.2	9549			0.3605	0.4683-02	
		BROND-2	9544			0.4400	0.4777-02	
	n,3n	JEF-2.2	9549			0.1100	0.2914-04	
		ENDF/B-VI	9549			0.1000	0.1265-04	
		JENDL-3.2	9549			0.2211	0.7320-04	
		BROND-2	9544			0.3800-01	0.1230-04	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
96-Cm-244	Total	JEF-2.2	9637	23.04	21.33	966.5	6.248	8.016
		JENDL-3.2	9637	27.24	25.34	1027.	5.769	7.918
		BROND-2	9631	27.67	25.82	977.3	5.981	8.266
	Elast.	JEF-2.2	9637	7.591	7.580	320.8	2.872	5.315
		JENDL-3.2	9637	11.09	11.07	361.7	2.733	5.117
		BROND-2	9631	11.37	11.36	336.8	2.819	5.005
	Inel.	JEF-2.2	9637			0.2092	0.5000-02	0.9859
		JENDL-3.2	9637			0.2652	0.1015-02	1.097
		BROND-2	9631			0.3376	0.4160	1.564
	n,2n	JEF-2.2	9637				0.3020	0.5777-02
		JENDL-3.2	9637				0.3103	0.5816-02
		BROND-2	9631				0.3680	0.3319-02
	n,3n	JEF-2.2	9637				0.7200-01	0.1433-04
		JENDL-3.2	9637				0.9062-01	0.3813-04
		BROND-2	9631				0.5500-01	0.1570-04
	Fiss.	JEF-2.2	9637	1.035	0.9132	11.91	2.990	1.608
		JENDL-3.2	9637	1.038	0.9065	5.961	2.636	1.549
		BROND-2	9631	1.030	0.9113	5.719	2.322	1.564
	n,g	JEF-2.2	9637	14.44	12.84	633.3	0.1000-02	0.1003
		JENDL-3.2	9637	15.11	13.36	659.3	0.8255-07	0.1455
		BROND-2	9631	15.27	13.55	634.4	0.1000-02	0.1269
96-Cm-245	Total	JEF-2.2	9640	2492.	2100.	1013.	6.191	8.137
		ENDF/B-VI	9640	2583.	2186.	1062.	5.675	8.140
		JENDL-3.2	9640	2358.	1972.	1041.	5.814	7.837
	Elast.	JEF-2.2	9640	10.44	10.41	141.4	2.918	4.687
		ENDF/B-VI	9640	8.912	8.890	123.9	2.585	4.725
		JENDL-3.2	9640	11.61	11.53	143.0	2.772	4.731
	Inel.	JEF-2.2	9640			0.3964-01	0.2357	1.411
		ENDF/B-VI	9640			0.1623	0.2500	1.526
		JENDL-3.2	9640			0.4499-01	0.9734-03	1.278
	n,2n	JEF-2.2	9640				0.5727	0.4947-02
		ENDF/B-VI	9640				0.2500	0.2355-01
		JENDL-3.2	9640				0.3595	0.2014-01
	n,3n	ENDF/B-VI	9640				0.4250	0.1244-03
		JENDL-3.2	9640				0.1414	0.4677-04
	Fiss.	JEF-2.2	9640	2132.	1797.	748.5	2.464	1.979
		ENDF/B-VI	9640	2231.	1888.	829.4	2.162	1.822
		JENDL-3.2	9640	2000.	1673.	788.7	2.540	1.738
	n,g	JEF-2.2	9640	349.3	292.9	123.1	0.4117-03	0.4916-01
		ENDF/B-VI	9640	343.8	289.3	108.6	0.2088-02	0.4317-01
		JENDL-3.2	9640	346.2	287.2	109.3	0.2544-09	0.6727-01.

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
96-Cm-246	Total	JEF-2.2	9643	11.08	10.93	272.3	5.609	7.813
		ENDF/B-VI	9643	11.08	10.94	272.1	5.604	7.818
		JENDL-3.2	9643	12.53	12.38	303.2	5.809	7.993
	Elast.	JEF-2.2	9643	9.725	9.721	164.0	2.609	5.052
		ENDF/B-VI	9643	9.708	9.723	163.9	2.615	5.060
		JENDL-3.2	9643	11.10	11.10	186.4	2.751	5.293
	Incl.	JEF-2.2	9643			0.4541	0.4996-01	1.349
		ENDF/B-VI	9643			0.4541	0.4996-01	1.349
		JENDL-3.2	9643			0.3288	0.2397-03	1.416
	n,2n	JEF-2.2	9643				0.3509-01	0.6454-02
		ENDF/B-VI	9643				0.3509-01	0.6454-02
		JENDL-3.2	9643				0.3854	0.6170-02
	n,3n	JEF-2.2	9643				0.8032	0.2804-03
		ENDF/B-VI	9643				0.8032	0.2804-03
		JENDL-3.2	9643				0.2451	0.7687-04
	Fiss.	JEF-2.2	9643	0.6326-01	0.5638-01	4.300	2.100	1.359
		ENDF/B-VI	9643	0.6352-01	0.5680-01	4.298	2.100	1.358
		JENDL-3.2	9643	0.1402	0.1245	3.890	2.420	1.214
	n,g	JEF-2.2	9643	1.298	1.157	103.5	0.1600-02	0.4426-01
		ENDF/B-VI	9643	1.304	1.164	103.5	0.1600-02	0.4435-01
		JENDL-3.2	9643	1.291	1.151	112.6	0.2322-09	0.5901-01
96-Cm-247	Total	JEF-2.2	9646	150.3	137.5	1366.	5.741	7.969
		ENDF/B-VI	9646	150.9	138.4	1368.	5.725	7.978
		JENDL-3.2	9646	147.8	129.8	1275.	5.803	8.040
	Elast.	JEF-2.2	9646	8.477	8.432	133.9	2.590	4.603
		ENDF/B-VI	9646	8.435	8.378	134.3	2.599	4.611
		JENDL-3.2	9646	8.792	8.748	141.0	2.743	4.870
	Incl.	JEF-2.2	9646			0.2046-01	0.5000-01	1.225
		ENDF/B-VI	9646			0.2046-01	0.5000-01	1.225
		JENDL-3.2	9646			0.5139-01	0.8460-03	1.164
	n,2n	JEF-2.2	9646				0.1000	0.3540-01
		ENDF/B-VI	9646				0.1000	0.3540-01
		JENDL-3.2	9646				0.2413	0.1493-01
	n,3n	JEF-2.2	9646				0.5000	0.2363-03
		ENDF/B-VI	9646				0.5000	0.2363-03
		JENDL-3.2	9646				0.2748	0.8302-04
	Fiss.	JEF-2.2	9646	83.54	76.10	740.3	2.500	2.063
		ENDF/B-VI	9646	83.95	76.68	741.0	2.475	2.063
		JENDL-3.2	9646	81.80	70.79	600.3	2.540	1.910
	n,g	JEF-2.2	9646	58.24	52.92	491.9	0.8000-03	0.4318-01
		ENDF/B-VI	9646	58.53	53.33	492.4	0.8000-03	0.4315-01
		JENDL-3.2	9646	57.22	50.23	534.1	0.1482-07	0.7689-01

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
98-Cf-249	Total	JEF-2.2	9852	2156.	1855.	3053.	5.797	7.908
		ENDF/B-VI	9852	2151.	1865.	3115.	5.856	8.129
		JENDL-3.2	9852	2177.	1869.	3036.	5.823	8.121
		CENDL-2	2981	2146.	1860.	3113.	5.828	8.120
	Elast.	JEF-2.2	9852	8.639	8.371	142.8	2.592	4.578
		ENDF/B-VI	9852	13.77	13.31	160.7	2.757	4.920
		JENDL-3.2	9852	6.231	5.997	133.3	2.747	4.994
		CENDL-2	2981	13.77	13.28	160.6	2.747	4.915
	Incl.	JEF-2.2	9852			0.1230-01	0.5000-01	1.509
		ENDF/B-VI	9852			0.2752-01	0.1465	1.199
		JENDL-3.2	9852			0.4796-01	0.6564-04	1.242
		CENDL-2	2981			0.2751-01	0.1465	1.199
	n,2n	JEF-2.2	9852				0.1850	0.2531-01
		ENDF/B-VI	9852				0.4190	0.6145-02
		JENDL-3.2	9852				0.6620	0.1631-01
		CENDL-2	2981				0.4190	0.6145-02
	n,3n	JEF-2.2	9852				0.5650	0.2479-03
		ENDF/B-VI	9852				0.1401-01	0.1367-04
		JENDL-3.2	9852				0.1180	0.5800-04
		CENDL-2	2981				0.1401-01	0.1367-04
	Fiss.	JEF-2.2	9852	1666.	1429.	2098.	2.400	1.718
		ENDF/B-VI	9852	1641.	1422.	2382.	2.497	1.780
		JENDL-3.2	9852	1666.	1430.	2209.	2.290	1.740
		CENDL-2	2981	1635.	1418.	2381.	2.497	1.779
n,g	JEF-2.2	9852	481.7	417.5	812.5	0.1000-02	0.7820-01	
	ENDF/B-VI	9852	498.7	429.5	572.4	0.3616-03	0.2164	
	JENDL-3.2	9852	504.5	433.5	693.9	0.3282-09	0.1236	
	CENDL-2	2981	497.0	428.2	572.0	0.3616-03	0.2161	
n,p	ENDF/B-VI	9852				0.1054-02	0.2674-05	
	CENDL-2	2981				0.1054-02	0.2674-05	
n,a	ENDF/B-VI	9852				0.2818-02	0.5302-05	
	CENDL-2	2981				0.2818-02	0.5302-05	
98-Cf-250	Total	JEF-2.2	9855	1624.	1460.	0.1186+05	5.883	8.070
		ENDF/B-VI	9855	1624.	1463.	0.1187+05	5.916	8.079
		JENDL-3.2	9855	1952.	1737.	9187.	5.830	8.149
	Elast.	JEF-2.2	9855	10.18	10.05	634.7	2.592	4.579
		ENDF/B-VI	9855	8.943	8.771	636.5	2.615	4.588
		JENDL-3.2	9855	167.7	163.6	749.0	2.751	5.277
	Incl.	JEF-2.2	9855			0.1816-01	0.5000-01	1.430
		ENDF/B-VI	9855			0.1816-01	0.5000-01	1.430
		JENDL-3.2	9855			0.3610	0.9554-02	0.8937
	n,2n	JEF-2.2	9855				0.2000	0.1325-01
		ENDF/B-VI	9855				0.2000	0.1325-01
		JENDL-3.2	9855				0.2249	0.2138-02

NUCLIDE REACTION FILE MAT				THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
98-Cf-250	n,3n	JEF-2.2	9855				0.5500	0.1795-03	
		ENDF/B-VI	9855				0.5500	0.1795-03	
		JENDL-3.2	9855				0.1317	0.3437-04	
	Fiss.	JEF-2.2	9855			0.6583	2.500	1.969	
		ENDF/B-VI	9855			0.6582	2.500	1.970	
		JENDL-3.2	9855	4.092	3.609	19.36	2.710	1.874	
	n,g	JEF-2.2	9855	1613.	1449.	0.1122+05	0.1000-02	0.7820-01	
		ENDF/B-VI	9855	1615.	1455.	0.1123+05	0.1000-02	0.7820-01	
		JENDL-3.2	9855	1780.	1570.	8418.	0.4966-06	0.9952-01	
	98-Cf-251	Total	JEF-2.2	9858	8205.	7246.	6805.	5.768	7.912
			ENDF/B-VI	9858	8209.	7271.	6824.	5.787	7.919
			JENDL-3.2	9858	7889.	6710.	4582.	5.845	8.191
Elast.		JEF-2.2	9858	12.12	12.28	304.0	2.592	4.579	
		ENDF/B-VI	9858	8.917	8.849	235.9	2.615	4.587	
		JENDL-3.2	9858	76.12	70.22	215.5	2.754	4.853	
Inel.		JEF-2.2	9858			0.3227-01	0.5000-01	1.497	
		ENDF/B-VI	9858			0.3227-01	0.5000-01	1.497	
		JENDL-3.2	9858			0.4551	0.1020-01	0.8641	
n,2n		JEF-2.2	9858				0.1693	0.4169-01	
		ENDF/B-VI	9858				0.1693	0.4169-01	
		JENDL-3.2	9858				0.2681	0.1384-01	
n,3n		JEF-2.2	9858				0.5520	0.2546-03	
		ENDF/B-VI	9858				0.5520	0.2546-03	
		JENDL-3.2	9858				0.3252	0.9471-04	
Fiss.		JEF-2.2	9858	5328.	4711.	4887.	2.400	1.717	
		ENDF/B-VI	9858	5333.	4730.	4954.	2.400	1.715	
		JENDL-3.2	9858	4935.	4194.	2762.	2.478	2.430	
n,g		JEF-2.2	9858	2864.	2523.	1613.	0.1000-02	0.7805-01	
		ENDF/B-VI	9858	2867.	2532.	1633.	0.1000-02	0.7804-01	
		JENDL-3.2	9858	2878.	2446.	1604.	0.1111-07	0.2838-01	
98-Cf-252		Total	JEF-2.2	9861	63.81	57.35	329.3	5.751	7.838
			ENDF/B-VI	9861	64.21	57.83	329.5	5.742	7.845
			JENDL-3.2	9861	64.83	58.52	336.3	5.856	8.230
	Elast.	JEF-2.2	9861	11.11	11.09	171.2	2.601	4.714	
		ENDF/B-VI	9861	11.28	11.26	171.5	2.610	4.725	
		JENDL-3.2	9861	11.06	11.04	189.3	2.758	5.196	
	Inel.	JEF-2.2	9861			0.1534-01	0.2000	1.175	
		ENDF/B-VI	9861			0.1534-01	0.2000	1.175	
		JENDL-3.2	9861			0.2895	0.1029-01	0.7347	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)		
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.	
98-Cf-252	n,2n	JEF-2.2	9861				0.1500	0.1013-01	
		ENDF/B-VI	9861				0.1500	0.1013-01	
		JENDL-3.2	9861				0.8660-01	0.5818-02	
	n,3n	JEF-2.2	9861				0.2636	0.1460-03	
		ENDF/B-VI	9861				0.2636	0.1460-03	
		JENDL-3.2	9861				0.2230	0.7189-04	
	Fiss.	JEF-2.2	9861	32.20	28.27	111.0	2.536	1.897	
		ENDF/B-VI	9861	32.34	28.45	111.0	2.518	1.893	
		JENDL-3.2	9861	33.04	29.20	99.66	2.770	2.237	
	n,g	JEF-2.2	9861	20.51	18.00	47.04	0.8000-03	0.4185-01	
		ENDF/B-VI	9861	20.60	18.12	47.06	0.8000-03	0.4187-01	
		JENDL-3.2	9861	20.72	18.27	47.03	0.1856-06	0.5257-01	
98-Cf-253	Total	JEF-2.2	9864	1544.	1382.	1826.	9.760	9.764	
		ENDF/B-VI	9864	1550.	1390.	1834.	9.773	9.807	
	Elast.	JEF-2.2	9864	65.35	64.12	196.1	9.760	9.760	
		ENDF/B-VI	9864	65.21	64.16	199.7	9.773	9.804	
	Fiss.	JEF-2.2	9864	1137.	1013.	1249.		0.2670-02	
		ENDF/B-VI	9864	1142.	1019.	1253.		0.2674-02	
	n,g	JEF-2.2	9864	341.6	304.4	380.5		0.4431-03	
		ENDF/B-VI	9864	342.9	306.2	381.6		0.4450-03	
	98-Cf-254	Total	JENDL-3.2	9867	17.16	16.47	197.7	5.879	8.306
		Elast.	JENDL-3.2	9867	10.62	10.62	176.6	2.766	5.259
		Inel.	JENDL-3.2	9867			0.3533	0.4908-02	0.8823
		n,2n	JENDL-3.2	9867				0.9656-01	0.8157-02
n,3n		JENDL-3.2	9867				0.3427	0.1301-03	
Fiss.		JENDL-3.2	9867	2.002	1.774	13.80	2.659	2.147	
n,g		JENDL-3.2	9867	4.504	3.991	6.473	0.2335-08	0.6642-02	
99-Es-253	Total	JEF-2.2	9917	211.2	197.8	6994.	9.760	9.763	
	Elast.	JEF-2.2	9917	9.818	9.765	681.4	9.760	9.762	
	n,g	JEF-2.2	9917	201.3	187.7	6313.		0.4225-03	
99-Es-254	Total	JENDL-3.2	9914	2007.	1780.	1377.	5.879	8.310	

NUCLIDE	REACTION	FILE	MAT	THERMAL CROSS SECT. (B)			FAST CROSS SECT. (B)	
				2200 M/S	MAXW.AVG.	RES.INTEG.	14-MEV	FISS AVG.
99-Es-254	Elast.	JENDL-3.2	9914	10.62	10.62	147.8	2.766	5.169
	Inel.	JENDL-3.2	9914			0.4902-05	0.4908-02	0.8646
	n,2n	JENDL-3.2	9914				0.3643	0.2116-01
	n,3n	JENDL-3.2	9914				0.5052	0.1561-03
	Fiss.	JENDL-3.2	9914	1967.	1744.	1206.	2.228	2.183
	n,g	JENDL-3.2	9914	28.19	23.86	17.34	0.1868-08	0.6910-01
99-Es-255	Total	JENDL-3.2	9915	79.21	71.68	557.7	5.881	8.344
	Elast.	JENDL-3.2	9915	10.62	10.62	194.8	2.771	5.269
	Inel.	JENDL-3.2	9915			0.3124	0.4936-02	0.7887
	n,2n	JENDL-3.2	9915				0.1110	0.6590-02
	n,3n	JENDL-3.2	9915				0.2243	0.7618-04
	Fiss.	JENDL-3.2	9915	13.44	11.91	82.35	2.770	2.236
	n,g	JENDL-3.2	9915	55.05	48.78	277.4	0.1773-08	0.4011-01
100-Fm-255	Total	JENDL-3.2	9936	3400.	3020.	1442.	5.881	8.350
	Elast.	JENDL-3.2	9936	10.62	10.62	168.8	2.771	5.130
	Inel.	JENDL-3.2	9936			0.8991-01	0.4936-02	0.8550
	n,2n	JENDL-3.2	9936				0.3905	0.1618-01
	n,3n	JENDL-3.2	9936				0.3400	0.1022-03
	Fiss.	JENDL-3.2	9936	3362.	2980.	1163.	2.373	2.326
	n,g	JENDL-3.2	9936	26.02	23.06	101.0	0.4044-08	0.2028-01

LES ÉDITIONS DE L'OCDE, 2 rue André-Pascal, 75775 PARIS CEDEX 16 - n° 78813 1994  
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