

TABLE 6. IRDF-II isotopic abundances, nuclear and elemental mass data. Numbers in parentheses indicate the absolute uncertainties, *e.g.*, 92.411(24) \equiv 92.411 \pm 0.024.

Target nucleus	Abundance [atom %]	Isotopic Atomic Mass Excess [keV]	Isotopic Atomic Mass [μ amu]	Elemental weight value or range [amu]
⁶ Li	7.589 (24)	+14086.8789 (14)	6015122.8874 (15)	[6.938, 6.997]
⁷ Li	92.411 (24)	+14907.105 (4)	7016003.437 (5)	[6.938, 6.997]
¹⁰ B	19.82 (2)	+12050.609 (15)	10012936.862 (16)	[10.806, 10.821]
¹¹ B	80.18 (2)	+8667.707 (12)	11009305.167 (13)	[10.806, 10.821]
¹⁹ F	100. (0)	-1487.4442 (09)	18998403.1629 (9)	18.998403 163(6)
²³ Na	100. (0)	-9529.8525 (18)	22989869.2820 (19)	22.98976928 (2)
²⁴ Mg	78.951 (12)	-13933.569 (13)	23985041.697 (14)	[24.304, 24.307]
²⁷ Al	100. (0)	-17196.86 (5)	26981538.41 (5)	26.9815385 (7)
²⁸ Si	92.22968 (44)	-21492.7943 (5)	27.9769265350 (5)	[28.084, 28.086]
²⁹ Si	4.68316 (32)	-21895.0784 (6)	28.9764946653 (6)	[28.084, 28.086]
³¹ P	100. (0)	-24440.5410 (7)	30973761.9986 (7)	30.973761 998 (5)
³² S	95.04074 (88)	-26015.5336 (13)	31972071.1744 (14)	[32.059, 32.076]
⁴⁵ Sc	100. (0)	-41071.9 (7)	44955907.5 (7)	44.955908 (5)
⁴⁶ Ti	8.249 (21)	-44127.80 (16)	45952626.86 (18)	47.867 (1)
⁴⁷ Ti	7.437 (14)	-44937.36 (12)	46951757.75 (12)	47.867 (1)
⁴⁸ Ti	73.720 (22)	-48492.71 (11)	47947940.93 (12)	47.867 (1)
⁵¹ V	99.7503 (6)	-52203.8 (4)	50 943956.9 (4)	50.9415 (1)
⁵⁰ Cr	0.2497 (6)	-50262.1 (4)	49 946041.4 (5)	51.9961 (6)
⁵² Cr	83.7895 (117)	-55419.2 (3)	51 940505.0 (4)	51.9961 (6)
⁵⁵ Mn	100. (0)	-57712.4 (3)	54938043.2 (3)	54.938 044 (3)
⁵⁴ Fe	5.8450 (230)	-56254.5 (4)	53939608.3 (4)	55.845 (2)
⁵⁴ Fe	5.8450 (230)	-56254.5 (4)	53939608.3 (4)	55.845 (2)
⁵⁶ Fe	91.7540 (240)	-60607.1 (3)	55934935.6 (3)	55.845 (2)
⁵⁸ Fe	0.2819 (27)	-62155.1 (3)	57933273.7 (4)	55.845 (2)
⁵⁹ Co	100. (0)	-62229.7 (4)	58933193.7 (4)	58.933194 (4)
⁵⁸ Ni	68.0769 (59)	-60228.7 (4)	57935341.8 (4)	58.6934 (4)
⁶³ Cu	69.174 (20)	-65579.8 (4)	62929597.2 (5)	63.546 (3)
⁶⁵ Cu	30.826 (20)	-67263.7 (6)	64927789.5 (7)	63.546 (3)
⁶⁴ Zn	49.1704 (83)	-66004.0 (6)	63929141.8 (7)	65.38 (2)
⁶⁷ Zn	4.0401 (18)	-67880.3 (8)	66 927127.5 (8)	65.38 (2)
⁷⁵ As	100. (0)	-73034.2 (9)	74 921594.6 (9)	74.921595 (6)
⁸⁹ Y	100. (0)	-87708.4 (16)	88 905841.2 (17)	88.90584 (2)
⁹⁰ Zr	51.452 (9)	-88772.54 (12)	89904698.76 (13)	91.224 (2)
⁹³ Nb	100. (0)	-87212.8 (15)	92906373.2 (16)	92.90637 (2)
⁹² Mo	14.649 (17)	-86808.58 (16)	91906807.16 (17)	95.95 (1)
¹⁰³ Rh	100. (0)	-88031.7 (23)	102905494.1 (25)	102.90550 (2)
¹⁰⁹ Ag	48.1608 (51)	-88719.4 (13)	108904755.8 (14)	107.8682 (2)
¹¹³ In	4.281 (17)	-89367.12 (19)	112904060.45 (20)	114.818(1)
¹¹⁵ In	95.719 (17)	-89536.346 (12)	114903878.774 (13)	114.818(1)
¹²⁷ I	100.	-88984 (4)	126904472 (4)	126.90447 (3)
¹³⁹ La	99.91119 (24)	-87226.2 (20)	138906358.8 (22)	138.90547 (7)
¹⁴¹ Pr	100.0 (0)	-86015.6 (17)	140907658.4 (18)	140.90766 (2)
¹⁶⁹ Tm	100.0 (0)	-61275.2 (08)	168934218.4 (09)	168.93422 (2)
¹⁸¹ Ta	99.98799 (8)	-48438.3 (14)	180947999.3 (15)	180.94788 (2)
¹⁸⁶ W	28.4259 (62)	-42508.5 (12)	185954365.2 (13)	183.84 (1)
¹⁹⁷ Au	100.0 (0)	-31139.7 (05)	196966570.1 (06)	196.966569 (5)
¹⁹⁹ Hg	16.938 (9)	-29546.1 (05)	198968281.0 (06)	200.592 (3)
²⁰⁴ Pb	1.4245 (12)	-25109.9 (11)	203973043.4 (12)	207.2 (1)
²⁰⁹ Bi	100.0 (0)	-18258.7 (14)	208980398.5 (15)	208.98040 (1)
²³² Th	99.998862 (2)	+35446.8 (14)	232038053.7 (15)	232.0377 (4)
²³⁵ U	0.72041 (36)	+40918.8 (11)	235043928.2 (12)	238.02891 (3)
²³⁸ U	99.27417 (36)	+47307.8 (15)	238050787.0 (16)	238.02891 (3)
²³⁷ Np	—	+44871.7 (11)	237048171.7 (12)	—
²³⁹ Pu	—	+48588.3 (11)	239052161.7 (12)	—
²⁴¹ Am	—	+52934.4 (11)	241056827.4 (12)	—