

TABLE 1

ABUNDANCES BY MASS FRACTION IN THE SUN

^A Z	X(^A Z)	%*	^A Z	X(^A Z)	%*	^A Z	X(^A Z)	%*
¹ H	7.06E-01	-9.4	³⁶ S	9.38E-08	24.2	⁵⁹ Co	3.36E-06	-12.2
² H	4.80E-05	46.8	³⁵ Cl	2.53E-06	-43.6	⁵⁸ Ni	4.94E-05	-10.3
³ He	2.93E-05	4.9	³⁷ Cl	8.54E-07	-45.8	⁶⁰ Ni	1.96E-05	-11.2
⁴ He	2.75E-01	24.1	³⁶ Ar	7.74E-05	-20.6	⁶¹ Ni	8.59E-07	-17.2
⁶ Li	6.50E-10	-19.3	³⁸ Ar	1.54E-05	-19.8	⁶² Ni	2.78E-06	-13.5
⁷ Li	9.35E-09	-20.6	⁴⁰ Ar	2.53E-08	-818.0	⁶⁴ Ni	7.27E-07	-31.9
⁹ Be	1.66E-10	-88.6	³⁹ K	3.47E-06	-6.3	⁶³ Cu	5.75E-07	-18.6
¹⁰ B	1.07E-09	51.1	⁴⁰ K	5.54E-09	-0.5	⁶⁵ Cu	2.65E-07	-19.0
¹¹ B	4.73E-09	51.4	⁴¹ K	2.63E-07	-8.9	⁶⁴ Zn	9.92E-07	-14.7
¹² C	3.03E-03	-27.5	⁴⁰ Ca	5.99E-05	-17.5	⁶⁶ Zn	5.88E-07	-14.1
¹³ C	3.65E-05	-27.2	⁴² Ca	4.20E-07	-16.2	⁶⁷ Zn	8.76E-08	-13.6
¹⁴ N	1.10E-03	15.0	⁴³ Ca	8.97E-08	-26.6	⁶⁸ Zn	4.06E-07	-13.8
¹⁵ N	4.36E-06	15.2	⁴⁴ Ca	1.42E-06	-15.6	⁷⁰ Zn	1.38E-08	-14.9
¹⁶ O	9.59E-03	10.9	⁴⁶ Ca	2.79E-09	1.5	⁶⁹ Ga	3.96E-08	-16.3
¹⁷ O	3.89E-06	12.4	⁴⁸ Ca	1.38E-07	-16.8	⁷¹ Ga	2.71E-08	-14.0
¹⁸ O	2.17E-05	9.6	⁴⁵ Sc	3.89E-08	-4.0	⁷⁰ Ge	4.32E-08	-12.9
¹⁹ F	4.05E-07	-6.2	⁴⁶ Ti	2.23E-07	-13.6	⁷² Ge	5.94E-08	-13.0
²⁰ Ne	1.62E-03	17.2	⁴⁷ Ti	2.08E-07	-14.8	⁷³ Ge	1.71E-08	-12.3
²¹ Ne	4.13E-06	-3.4	⁴⁸ Ti	2.15E-06	-15.4	⁷⁴ Ge	8.12E-08	-13.2
²² Ne	1.30E-04	-38.3	⁴⁹ Ti	1.64E-07	-14.8	⁷⁶ Ge	1.78E-08	-12.3
²³ Na	3.34E-05	-19.9	⁵⁰ Ti	1.64E-07	-13.0	⁷⁵ As	1.24E-08	-8.5
²⁴ Mg	5.15E-04	-12.9	⁵⁰ V	9.26E-10	4.4	⁷⁴ Se	1.03E-09	-21.0
²⁵ Mg	6.77E-05	-14.7	⁵¹ V	3.77E-07	0.6	⁷⁶ Se	1.08E-08	-23.8
²⁶ Mg	7.76E-05	-14.7	⁵⁰ Cr	7.42E-07	-6.9	⁷⁷ Se	9.15E-09	-24.0
²⁷ Al	5.80E-05	-14.9	⁵² Cr	1.49E-05	-7.6	⁷⁸ Se	2.90E-08	-23.3
²⁸ Si	6.53E-04	-14.7	⁵³ Cr	1.72E-06	-8.5	⁸⁰ Se	6.25E-08	-24.0
²⁹ Si	3.43E-05	-15.5	⁵⁴ Cr	4.36E-07	-8.6	⁸² Se	1.18E-08	-24.0
³⁰ Si	2.35E-05	-14.4	⁵⁵ Mn	1.33E-05	-11.7	⁷⁹ Br	1.19E-08	10.8
³¹ P	8.16E-06	28.3	⁵⁴ Fe	7.13E-05	-15.2	⁸¹ Br	1.19E-08	10.3
³² S	3.96E-04	-11.5	⁵⁶ Fe	1.17E-03	-14.8	⁷⁸ Kr	3.02E-10	-9.5
³³ S	3.22E-06	-13.0	⁵⁷ Fe	2.85E-05	-14.2	⁸⁰ Kr	2.02E-09	-8.0
³⁴ S	1.87E-05	-11.6	⁵⁸ Fe	3.70E-06	-35.2	⁸² Kr	1.07E-08	-6.3

* Percentage difference between mass fractions as calculated from abundance data due to Anders and Grevesse (1989) vs. Cameron (1983).

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^A Z	X(^A Z)	%*	^A Z	X(^A Z)	%*	^A Z	X(^A Z)	%*
⁸³ Kr	1.08E-08	-6.1	¹⁰⁴ Pd	4.08E-10	-5.9	¹²⁴ Te	7.18E-10	-49.8
⁸⁴ Kr	5.46E-08	-4.9	¹⁰⁵ Pd	8.23E-10	-7.0	¹²⁵ Te	1.08E-09	-52.3
⁸⁶ Kr	1.71E-08	-4.9	¹⁰⁶ Pd	1.02E-09	-7.2	¹²⁶ Te	2.90E-09	-54.0
⁸⁵ Rb	1.10E-08	1.4	¹⁰⁸ Pd	1.01E-09	-8.2	¹²⁸ Te	4.95E-09	-55.2
⁸⁷ Rb	4.64E-09	1.0	¹¹⁰ Pd	4.54E-10	-8.4	¹³⁰ Te	5.36E-09	-57.7
⁸⁴ Sr	2.80E-10	-11.3	¹⁰⁷ Ag	6.82E-10	-7.5	¹²⁷ I	2.89E-09	-61.9
⁸⁶ Sr	5.05E-09	-11.8	¹⁰⁹ Ag	6.45E-10	-9.8	¹²⁴ Xe	1.79E-11	-48.7
⁸⁷ Sr	3.32E-09	-14.7	¹⁰⁶ Cd	5.39E-11	-7.3	¹²⁶ Xe	1.62E-11	-51.0
⁸⁸ Sr	4.32E-08	-11.8	¹⁰⁸ Cd	3.91E-11	-9.1	¹²⁸ Xe	3.33E-10	-41.5
⁸⁹ Y	1.04E-08	-18.7	¹¹⁰ Cd	5.59E-10	-9.6	¹²⁹ Xe	4.18E-09	-44.3
⁹⁰ Zr	1.34E-08	-20.8	¹¹¹ Cd	5.78E-10	-10.3	¹³⁰ Xe	6.74E-10	-39.9
⁹¹ Zr	2.95E-09	-21.0	¹¹² Cd	1.10E-09	-10.3	¹³¹ Xe	3.38E-09	-40.6
⁹² Zr	4.56E-09	-20.0	¹¹³ Cd	5.63E-10	-10.7	¹³² Xe	4.14E-09	-40.7
⁹⁴ Zr	4.71E-09	-21.1	¹¹⁴ Cd	1.34E-09	-10.8	¹³⁴ Xe	1.56E-09	-47.5
⁹⁶ Zr	7.77E-10	-21.9	¹¹⁶ Cd	3.55E-10	-11.0	¹³⁶ Xe	1.28E-09	-50.7
⁹³ Nb	1.64E-09	-48.0	¹¹³ In	2.26E-11	-16.2	¹³³ Cs	1.25E-09	-20.3
⁹² Mo	8.80E-10	-92.5	¹¹⁵ In	5.12E-10	-18.7	¹³⁰ Ba	1.57E-11	-16.9
⁹⁴ Mo	5.61E-10	-75.5	¹¹² Sn	1.05E-10	-9.5	¹³² Ba	1.51E-11	-18.0
⁹⁵ Mo	9.76E-10	-77.8	¹¹⁴ Sn	7.18E-11	-12.4	¹³⁴ Ba	3.69E-10	-22.1
⁹⁶ Mo	1.03E-09	-78.5	¹¹⁵ Sn	3.75E-11	-15.6	¹³⁵ Ba	1.01E-09	-22.5
⁹⁷ Mo	5.99E-10	-77.8	¹¹⁶ Sn	1.63E-09	-9.4	¹³⁶ Ba	1.21E-09	-21.9
⁹⁸ Mo	1.52E-09	-77.4	¹¹⁷ Sn	8.67E-10	-10.4	¹³⁷ Ba	1.75E-09	-23.6
¹⁰⁰ Mo	6.22E-10	-79.6	¹¹⁸ Sn	2.76E-09	-10.3	¹³⁸ Ba	1.12E-08	-22.6
⁹⁶ Ru	2.50E-10	-17.0	¹¹⁹ Sn	9.87E-10	-10.9	¹³⁸ La	1.43E-12	4.6
⁹⁸ Ru	8.68E-11	-16.4	¹²⁰ Sn	3.79E-09	-12.0	¹³⁹ La	1.57E-09	4.8
⁹⁹ Ru	5.91E-10	-17.7	¹²² Sn	5.46E-10	-13.5	¹³⁶ Ce	7.43E-12	-22.2
¹⁰⁰ Ru	5.92E-10	-17.7	¹²⁴ Sn	6.93E-10	-14.2	¹³⁸ Ce	9.88E-12	-21.6
¹⁰¹ Ru	8.07E-10	-17.7	¹²¹ Sb	5.42E-10	-14.8	¹⁴⁰ Ce	3.58E-09	-20.4
¹⁰² Ru	1.52E-09	-17.3	¹²³ Sb	4.11E-10	-15.6	¹⁴² Ce	4.53E-10	-21.1
¹⁰⁴ Ru	9.15E-10	-16.4	¹²⁰ Te	1.31E-11	-54.8	¹⁴¹ Pr	5.96E-10	-23.7
¹⁰³ Rh	8.96E-10	-33.4	¹²² Te	3.83E-10	-47.1	¹⁴² Nd	8.08E-10	-9.1
¹⁰² Pd	3.66E-11	-1.0	¹²³ Te	1.33E-10	-55.5	¹⁴³ Nd	3.62E-10	-10.3

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^A Z	X(^A Z)	%*	^A Z	X(^A Z)	%*	^A Z	X(^A Z)	%*
¹⁴⁴ Nd	7.18E-10	-9.5	¹⁶⁶ Er	3.54E-10	-4.5	¹⁸⁸ Os	4.27E-10	-17.2
¹⁴⁵ Nd	2.52E-10	-9.6	¹⁶⁷ Er	2.43E-10	-5.0	¹⁸⁹ Os	5.21E-10	-16.9
¹⁴⁶ Nd	5.24E-10	-9.9	¹⁶⁸ Er	2.86E-10	-6.4	¹⁹⁰ Os	8.55E-10	-17.3
¹⁴⁸ Nd	1.79E-10	-8.7	¹⁷⁰ Er	1.61E-10	-4.9	¹⁹² Os	1.35E-09	-17.2
¹⁵⁰ Nd	1.77E-10	-9.1	¹⁶⁹ Tm	1.62E-10	-6.3	¹⁹¹ Ir	1.19E-09	-25.0
¹⁴⁴ Sm	2.91E-11	-6.4	¹⁶⁸ Yb	1.37E-12	3.8	¹⁹³ Ir	2.02E-09	-25.0
¹⁴⁷ Sm	1.48E-10	-6.7	¹⁷⁰ Yb	3.25E-11	8.0	¹⁹⁰ Pt	8.17E-13	-20.8
¹⁴⁸ Sm	1.09E-10	-6.1	¹⁷¹ Yb	1.53E-10	7.3	¹⁹² Pt	5.10E-11	-20.2
¹⁴⁹ Sm	1.34E-10	-7.0	¹⁷² Yb	2.36E-10	7.9	¹⁹⁴ Pt	2.16E-09	-20.7
¹⁵⁰ Sm	7.25E-11	-7.5	¹⁷³ Yb	1.75E-10	7.3	¹⁹⁵ Pt	2.23E-09	-20.8
¹⁵² Sm	2.65E-10	-6.8	¹⁷⁴ Yb	3.47E-10	7.2	¹⁹⁶ Pt	1.68E-09	-21.2
¹⁵⁴ Sm	2.28E-10	-6.7	¹⁷⁶ Yb	1.40E-10	7.1	¹⁹⁸ Pt	4.82E-10	-21.5
¹⁵¹ Eu	1.78E-10	-10.8	¹⁷⁵ Lu	1.58E-10	-9.6	¹⁹⁷ Au	9.32E-10	-28.9
¹⁵³ Eu	1.97E-10	-10.7	¹⁷⁶ Lu	4.63E-12	-15.9	¹⁹⁶ Hg	2.38E-12	25.9
¹⁵² Gd	2.54E-12	-46.0	¹⁷⁴ Hf	1.10E-12	-42.9	¹⁹⁸ Hg	1.71E-10	28.0
¹⁵⁴ Gd	2.80E-11	-44.1	¹⁷⁶ Hf	3.53E-11	-27.9	¹⁹⁹ Hg	2.88E-10	29.1
¹⁵⁵ Gd	1.91E-10	-45.6	¹⁷⁷ Hf	1.28E-10	-25.9	²⁰⁰ Hg	3.98E-10	29.0
¹⁵⁶ Gd	2.67E-10	-46.0	¹⁷⁸ Hf	1.89E-10	-26.0	²⁰¹ Hg	2.28E-10	29.0
¹⁵⁷ Gd	2.05E-10	-46.6	¹⁷⁹ Hf	9.51E-11	-27.9	²⁰² Hg	5.16E-10	28.9
¹⁵⁸ Gd	3.28E-10	-45.5	¹⁸⁰ Hf	2.46E-10	-27.1	²⁰⁴ Hg	1.20E-10	29.1
¹⁶⁰ Gd	2.92E-10	-46.4	¹⁸⁰ Ta	1.13E-14	-13.8	²⁰³ Tl	2.79E-10	-18.6
¹⁵⁹ Tb	2.43E-10	-44.6	¹⁸¹ Ta	9.48E-11	-10.9	²⁰⁵ Tl	6.74E-10	-18.3
¹⁵⁶ Dy	8.72E-13	-0.2	¹⁸⁰ W	7.88E-13	-168.6	²⁰⁴ Pb	3.15E-10	3.8
¹⁵⁸ Dy	1.51E-12	-1.4	¹⁸² W	1.61E-10	-159.7	²⁰⁶ Pb	3.09E-09	5.2
¹⁶⁰ Dy	3.73E-11	-5.7	¹⁸³ W	8.80E-11	-160.9	²⁰⁷ Pb	3.37E-09	4.5
¹⁶¹ Dy	3.03E-10	-7.7	¹⁸⁴ W	1.90E-10	-158.5	²⁰⁸ Pb	9.63E-09	4.7
¹⁶² Dy	4.14E-10	-7.4	¹⁸⁶ W	1.79E-10	-157.3	²⁰⁹ Bi	7.61E-10	-11.6
¹⁶³ Dy	4.05E-10	-8.0	¹⁸⁵ Re	9.03E-11	-12.4	²³² Th	2.46E-10	-22.9
¹⁶⁴ Dy	4.60E-10	-7.5	¹⁸⁷ Re	1.66E-10	-13.8	²³⁵ U	3.41E-11	-28.2
¹⁶⁵ Ho	3.71E-10	-18.8	¹⁸⁴ Os	5.68E-13	-16.6	²³⁸ U	1.09E-10	-28.7
¹⁶² Er	1.44E-12	-2.3	¹⁸⁶ Os	5.03E-11	4.6			
¹⁶⁴ Er	1.68E-11	-2.0	¹⁸⁷ Os	3.82E-11	-15.2			

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