

26.1: Appendix A. Standard Atomic Weights 1999†

[Scaled to $A_r(^{12}\text{C}) = 12$, where ^{12}C is a neutral atom in its nuclear and electronic ground state]

Atomic Number	Name	Symbol	Atomic Weight
1	Hydrogen	H	1.00794
2	Helium	He	4.002602
3	Lithium	Li	[6.941(2)]
4	Beryllium	Be	9.012182
5	Boron	B	10.811
6	Carbon	C	12.0107
7	Nitrogen	N	14.0067
8	Oxygen	O	15.9994
9	Fluorine	F	18.9984032
10	Neon	Ne	20.1797
11	Sodium	Na	22.989770
12	Magnesium	Mg	24.3050
13	Aluminum	Al	26.981538
14	Silicon	Si	28.0855
15	Phosphorus	P	30.973761
16	Sulfur	S	32.065
17	Chlorine	Cl	35.453
18	Argon	Ar	39.948
19	Potassium	K	39.0983
20	Calcium	Ca	40.078
21	Scandium	Sc	44.955910
22	Titanium	Ti	47.867
23	Vanadium	V	50.9415
24	Chromium	Cr	51.9961
25	Manganese	Mn	54.938049
26	Iron	Fe	55.845
27	Cobalt	Co	58.933200
28	Nickel	Ni	58.6934
29	Copper	Cu	63.546
30	Zinc	Zn	65.39
31	Gallium	Ga	69.723
32	Germanium	Ge	72.64
33	Arsenic	As	74.92160
34	Selenium	Se	78.96
35	Bromine	Br	79.904
36	Krypton	Kr	83.80
37	Rubidium	Rb	85.4678
38	Strontium	Sr	87.62
39	Yttrium	Y	88.90585
40	Zirconium	Zr	91.224
41	Niobium	Nb	92.90638
42	Molybdenum	Mo	95.94
43	Technetium*	Tc ⁹⁸	97.9072
44	Ruthenium	Ru	101.07

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45	Rhodium	Rh	102.90550
46	Palladium	Pd	106.42
47	Silver	Ag	107.8682
48	Cadmium	Cd	112.411
49	Indium	In	114.818
50	Tin	Sn	118.710
51	Antimony	Sb	121.760
52	Tellurium	Te	127.60
53	Iodine	I	126.90447
54	Xenon	Xe	131.293
55	Cesium	Cs	132.90545
56	Barium	Ba	137.327
57	Lanthanum	La	138.9055
58	Cerium	Ce	140.116
59	Praseodymium	Pr	140.90765
60	Neodymium	Nd	144.24
61	Promethium	Pm ¹⁴⁵	144.9127
62	Samarium	Sm	150.36
63	Europium	Eu	151.964
64	Gadolinium	Gd	157.25
65	Terbium	Tb	158.92534
66	Dysprosium	Dy	162.50
67	Holmium	Ho	164.93032
68	Erbium	Er	167.259
69	Thulium	Tm	168.93421
70	Ytterbium	Yb	173.04
71	Lutetium	Lu	174.967
72	Hafnium	Hf	178.49
73	Tantalum	Ta	180.9479
74	Tungsten	W	183.84
75	Rhenium	Re	186.207
76	Osmium	Os	190.23
77	Iridium	Ir	192.217
78	Platinum	Pt	195.078
79	Gold	Au	196.96655
80	Mercury	Hg	200.59
81	Thallium	Tl	204.3833
82	Lead	Pb	207.2
83	Bismuth	Bi	208.98038
84	Polonium*	Po ²¹⁰	209.9829
85	Astatine*	At ²¹⁰	209.9871
86	Radon*	Rn ²²²	222.0176
87	Francium*	Fr ²²³	223.0197
88	Radium*	Ra ²²⁶	226.0254
89	Actinium*	Ac ²²⁷	227.0277
90	Thorium*	Th	232.0381
91	Protactinium*	Pa	231.03588
92	Uranium	U	238.02891

92	Uranium*	U	238.02891
93	Neptunium*	Np ²³⁷	237.0482
94	Plutonium*	Pu ²⁴⁴	244.0642
95	Americium*	Am ²⁴³	243.0614
96	Curium*	Cm ²⁴⁷	247.0704
97	Berkelium*	Bk ²⁴⁷	247.0703
98	Californium*	Cf ²⁵¹	251.0796
99	Einsteinium*	Es ²⁵²	252.0830
100	Fermium*	Fm ²⁵⁷	257.0951
101	Mendelevium*	Md ²⁵⁸	258.0984
102	Nobelium*	No ²⁵⁹	259.1010
103	Lawrencium*	Lr ²⁶²	262.1097
104	Rutherfordium*	Rf ²⁶¹	261.1088

[†]This table is slightly modified from that given in “ATOMIC WEIGHTS OF THE ELEMENTS, 1999” published by the International Union of Pure and Applied Chemistry, Inorganic Chemistry Division, Commission on Atomic Weights and Isotopic Abundances. Elements 105 – 118 are omitted. The Commission’s report was prepared for publication by T. B. Coplen, U.S. Geological Survey, 431 National Center, Reston, Virginia 20192, USA. See <http://www.physics.curtin.edu.au/iupac/docs/Atwt1999.doc>

*Element has no stable nuclides. Three such elements (Th, Pa, and U) have a characteristic terrestrial isotopic composition, and for these an atomic weight is tabulated. When the element symbol is listed with an atomic number, that isotope has the longest half-life and its atomic weight is tabulated.

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