Periodic table of the chemical elements

ChemTable chemtable.org

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1 H 2.20 Hydrogen 1.0080 1																	2 He Helium 4.0026 2
2	3 Li 0.98 Lithium 6.94 2-1	4 Be 1.57 Beryllium 9.0122 2-2											5 B 2.04 Boron 10.81 2-3	6 C 2.55 Carbon 12.011 2-4	7 N 3.04 Nitrogen 14.007 2-5	8 O 3.44 Oxygen 15.999 2-6	9 F 3.98 Fluorine 18.998 2-7	10 Ne Neon 20.180 2-8
3	11 Na 0.93 Sodium 22.990 2-8-1	12 Mg 1.31 Magnesium 24.305 2-8-2											13 Al 1.61 Aluminium 26.982 2-8-3	14 Si 1.90 Silicon 28.085 2-8-4	15 P 2.19 Phosphorus 30.974 2-8-5	16 S 2.58 Sulfur 32.06 2-8-6	17 Cl 3.16 Chlorine 35.45 2-8-7	18 Ar Argon 39.95 2-8-8
4	19 K 0.82 Potassium 39.098 2-8-8-1	20 Ca 1.00 Calcium 40.078 2-8-8-2	21 Sc 1.36 Scandium 44.956 2-8-9-2	22 Ti 1.54 Titanium 47.867 2-8-10-2	23 V 1.63 Vanadium 50.942 2-8-11-2	24 Cr 1.66 Chromium 51.996 2-8-13-1	25 Mn 1.55 Manganese 54.938 2-8-13-2	26 Fe 1.83 Iron 55.845 2-8-14-2	27 Co 1.88 Cobalt 58.933 2-8-15-2	28 Ni 1.91 Nickel 58.693 2-8-16-2	29 Cu 1.90 Copper 63.546 2-8-18-1	30 Zn 1.65 Zinc 65.38 2-8-18-2	31 Ga 1.81 Gallium 69.723 2-8-18-3	32 Ge 2.01 Germanium 72.630 2-8-18-4	33 As 2.18 Arsenic 74.922 2-8-18-5	34 Se 2.55 Selenium 78.971 2-8-18-6	35 Br 2.96 Bromine 79.904 2-8-18-7	36 Kr 3.00 Krypton 83.798 2-8-18-8
5	37 Rb 0.82 Rubidium 85.468 2-8-18-8-1	38 Sr 0.95 Strontium 87.62 2-8-18-8-2	39 Y 1.22 Yttrium 88.906 2-8-18-9-2	40 Zr 1.33 Zirconium 91.222 2-8-18-10-2	41 Nb 1.6 Niobium 92.906 2-8-18-12-1	42 Mo 2.16 Molybdenum 95.95 2-8-18-13-1	43 Tc 1.9 Technetium [97] 2-8-18-13-2	44 Ru 2.2 Ruthenium 101.07 2-8-18-15-1	45 Rh 2.28 Rhodium 102.91 2-8-18-16-1	46 Pd 2.20 Palladium 106.42 2-8-18-18	47 Ag 1.93 Silver 107.87 2-8-18-18-1	48 Cd 1.69 Cadmium 112.41 2-8-18-18-2	49 In 1.78 Indium 114.82 2-8-18-18-3	50 Sn 1.96 Tin 118.71 2-8-18-18-4	51 Sb 2.05 Antimony 121.76 2-8-18-18-5	52 Te 2.1 Tellurium 127.60 2-8-18-18-6	53 I 2.66 Iodine 126.90 2-8-18-18-7	54 Xe 2.6 Xenon 131.29 2-8-18-18-8
6	55 Cs 0.79 Caesium 132.91 2-8-18-18-8-1	56 Ba 0.89 Barium 137.33 2-8-18-18-8-2	57–71	72 Hf 1.3 Hafnium 178.49 2-8-18-32-10-2	73 Ta 1.5 Tantalum 180.95 2-8-18-32-11-2	74 W 2.36 Tungsten 183.84 2-8-18-32-12-2	75 Re 1.9 Rhenium 186.21 2-8-18-32-13-2	76 Os 2.2 Osmium 190.23 2-8-18-32-14-2	77 Ir 2.20 Iridium 192.22 2-8-18-32-15-2	78 Pt 2.28 Platinum 195.08 2-8-18-32-17-1	79 Au 2.54 Gold 196.97 2-8-18-32-18-1	80 Hg 2.00 Mercury 200.59 2-8-18-32-18-2	81 Tl 1.62 Thallium 204.38 2-8-18-32-18-3	82 Pb 1.87 Lead 207.2 2-8-18-32-18-4	83 Bi 2.02 Bismuth 208.98 2-8-18-32-18-5	84 Po 2.0 Polonium [209] 2-8-18-32-18-6	85 At Astatine [210] 2-8-18-32-18-7	86 Rn Radon [222] 2-8-18-32-18-8
7	87 Fr Francium [223] 2-8-18-32-18-8-1	88 Ra 0.9 Radium [226] 2-8-18-32-18-8-2	89–103	104 Rf Rutherfordium [267] 2-8-18-32-32-10-2	105 Db Dubnium [268] 2-8-18-32-32-11-2	106 Sg Seaborgium [269] 2-8-18-32-32-12-2	107 Bh Bohrium [270] 2-8-18-32-32-13-2	108 Hs Hassium [269] 2-8-18-32-32-14-2	109 Mt Meitnerium [278] 2-8-18-32-32-15-2	110 Ds Darmstadtium [281] 2-8-18-32-32-16-2	111 Rg Roentgenium [282] 2-8-18-32-32-17-2	112 Cn Copernicium [285] 2-8-18-32-32-18-2	113 Nh Nihonium [286] 2-8-18-32-32-18-3	114 Fl Flerovium [289] 2-8-18-32-32-18-4	115 Mc Moscovium [290] 2-8-18-32-32-18-5	116 Lv Livermorium [293] 2-8-18-32-32-18-6	117 Ts Tennessine [294] 2-8-18-32-32-18-7	118 Og Oganesson [294] 2-8-18-32-32-18-8

26 Fe 1.83 — Iron — 55.845 — 2-8-14-2

Atomic number · χ

Symbol

Name

Atomic mass

Electrons per shell

- Alkali metals
- Alkaline earth metals
- Transition metals
- Post-transition metals
- Metalloids
- Nonmetals
- Halogens
- Noble gases
- Lanthanides
- Actinides

57 La 1.10 Lanthanum 138.91 2-8-18-18-9-2	58 Ce 1.12 Cerium 140.12 2-8-18-19-9-2	59 Pr 1.13 Praseodymium 140.91 2-8-18-21-8-2	60 Nd 1.14 Neodymium 144.24 2-8-18-22-8-2	61 Pm Promethium [145] 2-8-18-23-8-2	62 Sm 1.17 Samarium 150.36 2-8-18-24-8-2	63 Eu Europium 151.96 2-8-18-25-8-2	64 Gd 1.20 Gadolinium 157.25 2-8-18-25-9-2	65 Tb Terbium 158.93 2-8-18-27-8-2	66 Dy 1.22 Dysprosium 162.50 2-8-18-28-8-2	67 Ho 1.23 Holmium 164.93 2-8-18-29-8-2	68 Er 1.24 Erbium 167.26 2-8-18-30-8-2	69 Tm 1.25 Thulium 168.93 2-8-18-31-8-2	70 Yb Ytterbium 173.05 2-8-18-32-8-2	71 Lu 1.27 Lutetium 174.97 2-8-18-32-9-2
89 Ac 1.1 Actinium [227] 2-8-18-32-18-9-2	90 Th 1.3 Thorium 232.04 2-8-18-32-18-10-2	91 Pa 1.5 Protactinium 231.04 2-8-18-32-20-9-2	92 U 1.38 Uranium 238.03 2-8-18-32-21-9-2	93 Np 1.36 Neptunium [237] 2-8-18-32-22-9-2	94 Pu 1.28 Plutonium [244] 2-8-18-32-24-8-2	95 Am Americium [243] 2-8-18-32-25-8-2	96 Cm Curium [247] 2-8-18-32-25-9-2	97 Bk Berkelium [247] 2-8-18-32-27-8-2	98 Cf Californium [251] 2-8-18-32-28-8-2	99 Es Einsteinium [252] 2-8-18-32-29-8-2	100 Fm Fermium [257] 2-8-18-32-30-8-2	101 Md Mendelevium [258] 2-8-18-32-31-8-2	102 No Nobelium [259] 2-8-18-32-32-8-2	103 Lr Lawrencium [266] 2-8-18-32-32-8-3

[227] — mass number of the most stable isotope

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