

IUPAC Periodic Table of the Elements

1 H hydrogen 1.0080 ± 0.0002	2 He helium 4.0026 ± 0.0001
3 Li lithium 6.94 ± 0.06	4 Be beryllium 9.0122 ± 0.0001
11 Na sodium 22.990 ± 0.001	12 Mg magnesium 24.305 ± 0.002
19 K potassium 39.098 ± 0.001	20 Ca calcium 40.078 ± 0.004
37 Rb rubidium 85.468 ± 0.001	38 Sr strontium 87.62 ± 0.01
55 Cs caesium 132.91 ± 0.01	56 Ba barium 137.33 ± 0.01
87 Fr francium [223]	88 Ra radium [226]
Key: atomic number Symbol name abridged standard atomic weight	
3 Sc scandium 44.956 ± 0.001	4 Ti titanium 47.867 ± 0.001
5 V vanadium 50.942 ± 0.001	6 Cr chromium 51.996 ± 0.001
7 Mn manganese 54.938 ± 0.001	8 Fe iron 55.845 ± 0.002
9 Co cobalt 58.933 ± 0.001	10 Ni nickel 58.693 ± 0.003
11 Cu copper 63.546 ± 0.02	12 Zn zinc 65.38 ± 0.02
13 Al aluminium 26.982 ± 0.001	14 Si silicon 28.085 ± 0.001
15 P phosphorus 30.974 ± 0.001	16 S sulfur 32.06 ± 0.02
17 Cl chlorine 35.45 ± 0.01	18 Ar argon 39.95 ± 0.16
21 Sc scandium 44.956 ± 0.001	22 Ti titanium 47.867 ± 0.001
23 V vanadium 50.942 ± 0.001	24 Cr chromium 51.996 ± 0.001
25 Mn manganese 54.938 ± 0.001	26 Fe iron 55.845 ± 0.002
27 Co cobalt 58.933 ± 0.001	28 Ni nickel 58.693 ± 0.003
29 Cu copper 63.546 ± 0.02	30 Zn zinc 65.38 ± 0.02
31 Ga gallium 69.723 ± 0.001	32 Ge germanium 72.630 ± 0.008
33 As arsenic 74.922 ± 0.001	34 Se selenium 78.971 ± 0.008
35 Br bromine 79.904 ± 0.003	36 Kr krypton 83.798 ± 0.002
37 Rb rubidium 85.468 ± 0.001	38 Sr strontium 87.62 ± 0.01
39 Y yttrium 88.906 ± 0.002	40 Zr zirconium 91.224 ± 0.002
41 Nb niobium 92.906 ± 0.001	42 Mo molybdenum 95.95 ± 0.01
43 Tc technetium [97]	44 Ru ruthenium 101.07 ± 0.02
45 Rh rhodium 102.91 ± 0.01	46 Pd palladium 106.42 ± 0.01
47 Ag silver 107.87 ± 0.01	48 Cd cadmium 112.41 ± 0.01
49 In indium 114.82 ± 0.01	50 Sn tin 118.71 ± 0.01
51 Sb antimony 121.76 ± 0.01	52 Te tellurium 127.60 ± 0.03
53 I iodine 126.90 ± 0.01	54 Xe xenon 131.29 ± 0.01
55-71 lanthanoids	72 Hf hafnium 178.49 ± 0.01
73 Ta tantalum 180.95 ± 0.01	74 W tungsten 183.84 ± 0.01
75 Re rhenum 186.21 ± 0.01	76 Os osmium 190.23 ± 0.03
77 Ir iridium 192.22 ± 0.01	78 Pt platinum 195.08 ± 0.02
79 Au gold 196.97 ± 0.01	80 Hg mercury 200.59 ± 0.01
81 Tl thallium 204.38 ± 0.1	82 Pb lead 207.2 ± 1.1
83 Bi bismuth 208.98 ± 0.01	84 Po polonium [209]
85 At astatine [210]	86 Rn radon [222]
87 Fr francium [223]	88 Ra radium [226]
89-103 actinoids	104 Rf rutherfordium [267]
105 Db dubnium [268]	106 Sg seaborgium [269]
107 Bh bohrium [270]	108 Hs hassium [269]
109 Mt meitnerium [277]	110 Ds darmstadtium [281]
111 Rg roentgenium [282]	112 Cn copernicium [285]
113 Nh nihonium [286]	114 Fl flerovium [290]
115 Mc moscovium [290]	116 Lv livermorium [293]
117 Ts tennessine [294]	118 Og oganesson [294]



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57 La lanthanum 138.91 ± 0.01	58 Ce cerium 140.12 ± 0.01	59 Pr praseodymium 140.91 ± 0.01	60 Nd neodymium 144.24 ± 0.01	61 Pm promethium [145]	62 Sm samarium 150.36 ± 0.02	63 Eu europium 151.96 ± 0.01	64 Gd gadolinium 157.25 ± 0.03	65 Tb terbium 158.93 ± 0.01	66 Dy dysprosium 162.50 ± 0.01	67 Ho holmium 164.93 ± 0.01	68 Er erbium 167.26 ± 0.01	69 Tm thulium 168.93 ± 0.01	70 Yb ytterbium 173.05 ± 0.02	71 Lu lutetium 174.97 ± 0.01
89 Ac actinium [227]	90 Th thorium 232.04 ± 0.01	91 Pa protactinium 231.04 ± 0.01	92 U uranium 238.03 ± 0.01	93 Np neptunium [237]	94 Pu plutonium [244]	95 Am americium [243]	96 Cm curium [247]	97 Bk berkelium [247]	98 Cf californium [251]	99 Es einsteinium [252]	100 Fm fermium [257]	101 Md mendelevium [258]	102 No nobelium [259]	103 Lr lawrencium [262]

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