

PERIODIC TABLE OF THE ELEMENTS

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Key																		
Atomic number Electronegativity Common ion charge Other ion charge													26 1.8 3+ 2+					
Symbol													Fe					
Name													iron					
Atomic mass (u)													55.85					
1												13		14	15	16	17	18
1 2.2 1+ 1-												5 2.0 2-		6 2.6 —	7 3.0 3-	8 3.4 2-	9 4.0 1-	10 — —
H hydrogen 1.01												B boron 10.81		C carbon 12.01	N nitrogen 14.01	O oxygen 16.00	F fluorine 19.00	He helium 4.00
3 1.0 1+												13 1.6 3+		14 1.9 —	15 2.2 3-	16 2.6 2-	17 3.2 1-	18 — —
Li lithium 6.94												Al aluminum 26.98		Si silicon 28.09	P phosphorus 30.97	S sulfur 32.07	Cl chlorine 35.45	Ar argon 39.95
11 0.9 1+												31 1.8 3+		32 2.0 4+	33 2.2 3-	34 2.6 2-	35 3.0 1-	36 3.0 —
Na sodium 22.99												Ga gallium 69.72		Ge germanium 72.61	As arsenic 74.92	Se selenium 78.96	Br bromine 79.90	Kr krypton 83.80
19 0.8 1+												49 1.8 3+		50 2.0 4+ 2+	51 2.1 3+ 5+	52 2.1 2-	53 2.7 1-	54 2.6 —
K potassium 39.10												In indium 114.82		Sn tin 118.71	Sb antimony 121.75	Te tellurium 127.60	I iodine 126.90	Xe xenon 131.29
37 0.8 1+												81 1.6 1+ 3+		82 1.9 2+ 4+	83 2.0 3+ 5+	84 2.0 2+ 4+	85 2.2 1-	86 2.2 —
Rb rubidium 85.47												Tl thallium 204.38		Pb lead 207.2	Bi bismuth 208.98	Po polonium (209)	At astatine (210)	Rn radon (222)
55 0.8 1+												113 — —		114 — —	115 — —	116 — —	117 — —	118 — —
Cs cesium 132.91												Nh nihonium (287)		Fl flerovium (289)	Mc moscovium (291)	Lv livermorium (293)	Ts tennessine (295)	Og oganeson (294)
56 0.9 2+												110 — —		111 — —	112 — —	113 — —	114 — —	115 — —
Ba barium 137.33												Ds darmstadtium (278)		Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)	Fl flerovium (289)	Mc moscovium (291)
72 1.3 4+												108 — —		109 — —	110 — —	111 — —	112 — —	113 — —
Hf hafnium 178.49												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
73 1.5 5+												107 — —		108 — —	109 — —	110 — —	111 — —	112 — —
Ta tantalum 180.95												Bh bohrium (273)		Hs hassium (276)	Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)
74 2.4 6+												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
W tungsten 183.85												Bh bohrium (273)		Hs hassium (276)	Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)
75 1.9 7+												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
Re rhenium 186.21												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
76 2.2 4+												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
Os osmium 190.23												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
77 2.2 4+												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
Ir iridium 192.22												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
78 2.3 4+ 2+												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
Pt platinum 195.08												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
79 2.5 3+ 1+												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
Au gold 196.97												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
80 2.0 2+ 1+												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
Hg mercury 200.59												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
81 1.6 1+ 3+												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
Tl thallium 204.38												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
82 1.9 2+ 4+												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
Pb lead 207.2												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
83 2.0 3+ 5+												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
Bi bismuth 208.98												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
84 2.0 2+ 4+												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
Po polonium (209)												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
85 2.2 1-												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
At astatine (210)												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
86 2.2 —												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)
Rn radon (222)												Hs hassium (276)		Mt meitnerium (279)	Ds darmstadtium (278)	Rg roentgenium (283)	Cn copernicium (285)	Nh nihonium (287)



6	57 1.1 3+ 2+ La lanthanum 138.90	58 1.1 3+ Ce cerium 140.12	59 1.1 3+ Pr praseodymium 140.91	60 1.1 3+ Nd neodymium 144.24	61 1.1 3+ Pm promethium (145)	62 1.2 3+ 2+ Sm samarium 150.36	63 1.2 3+ 2+ Eu euroium 151.96	64 1.2 3+ Gd gadolinium 157.25	65 1.1 3+ Tb terbium 158.92	66 1.2 3+ Dy dysprosium 162.50	67 1.2 3+ Ho holmium 164.93	68 1.2 3+ Er erbium 167.26	69 1.3 3+ Tm thulium 168.93	70 1.1 3+ 2+ Yb ytterbium 173.04	71 1.3 3+ Lu lutetium 174.97
7	89 1.1 3+ 2+ Ac actinium 227.03	90 1.3 4+ Th thorium 232.04	91 1.5 5+ 4+ Pa protactinium 231.04	92 1.4 6+ 4+ U uranium 238.03	93 1.4 5+ Np neptunium (237)	94 1.3 3+ 6+ Pu plutonium (244)	95 1.1 3+ 4+ Am americium (243)	96 1.3 3+ Cm curium (247)	97 1.3 3+ 4+ Bk berkelium (247)	98 1.3 3+ Cf californium (251)	99 1.3 3+ Es einsteinium (252)	100 1.3 3+ Fm fermium (257)	101 1.3 2+ 3+ Md mendelevium (258)	102 1.3 2+ 3+ No nobelium (259)	103 1.3 3+ Lr lawrencium (264)