

GROUP 1
IA

1	1,00794
H 2.2 Hydrogen +1,-1	

1

3	6.941 4	9.012182
Li 0.98 Lithium +1	Be 1.57 Beryllium +2	

2

11	22.98977 12	24.3050
Na 0.93 Sodium +1	Mg 1.31 Magnesium +2	

3

Period

19	39.0983 20	40.078 21
K 0.82 Potassium +1	Ca 1.00 Calcium +2	Sc Scandium +3

4

37	85.4678 38	87.62 39
Rb 0.82 Rubidium +1	Sr 0.95 Strontium +2	Y Yttrium +3

5

55	132.905 56	137.327
Cs 0.79 Cesium +1	Ba 0.89 Barium +2	Hf Hafnium +4

6

87	223 88	(226)
Fr 0.7 Francium +1	Ra 0.9 Radium +2	

7

Periodic Table of the Elements

Atomic number 1 1.00794 Atomic weight

*Electronegativity (Pauling)

H 2.2 Hydrogen +1,-1	
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Possible Oxidation States

2 4.002602

He - Helium 0	
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18
VIIIA

5	10.811 6	12.0107 7	14.0067 8	15.9994 9	18.998 10	20.1797
B 2.04 Boron +3	C 2.55 Carbon +2,4,-4	N 3.04 Nitrogen +2,3,4,5,-2,-3	O 3.44 Oxygen -2	F 3.98 Fluorine -1	Ne - Neon 0	
13	26.981538 14	28.0855 15	30.97361 16	32.065 17	35.453 18	39.948
Al 1.61 Aluminum +3	Si 1.90 Silicon +2,4,-4	P 2.19 Phosphorus +3,4,5,-3	S 2.58 Sulfur +2,4,6,-2	Cl 3.16 Chlorine +1,3,5,7,-1	Ar - Argon 0	
19	68.723 20	72.64 21	74.92160 22	78.96 23	79.904 24	83.798
Ga 1.81 Gallium +3	Ge 2.01 Germanium +2,4	As 2.18 Arsenic +3,5,-3	Se 2.55 Selenium +2,4,6,-2	Br 2.96 Bromine -1	Kr 3 Krypton 0	
27	114.818 28	118.710 29	121.760 30	127.60 31	126.904 32	131.293
In 1.78 Indium +3	Sn 1.96 Tin +2,4	Sb 2.05 Antimony +3,5,-3	Te 2.10 Tellurium +2,4,6,-2	I 2.66 Iodine +1,5,7,-1	Xe 2.60 Xenon 0	
81	204.3833 82	207.2 83	208.98 84	209 85	(210) 86	(222)
Tl 1.62 Thallium +1,3	Pb 2.33 Lead +2,4	Bi 2.02 Bismuth +3,5	Po 2.0 Polonium +2,4	At 2.2 Astatine +1,3,5,7,-1	Rn - Radon 0	
113	(285) 113	(289) 114	(292) 115	(292) 116	(292) 117	(292) 118
Uut Ununtrium	Uuq Ununquadium	Uup Ununpentium	Uuh Ununhexium	Uus Ununseptium	Uuo Ununoctium	

Lanthanides

57	138.9055 58	140.116 59	140.9077 60	144.24 61	(145) 62	150.36 63	151.964 64	157.25 65	158.9253 66	162.500 67	164.9303 68	167.259 69	168.9342 70	173.04 71	174.967
La 1.10 Lanthanum +3	Ce 1.12 Cerium +3,4	Pr 1.13 Praseodymium +3,4	Nd 1.14 Neodymium +3	Pm - Promethium +3	Sm 1.17 Samarium +2,3	Eu - Europium +2,3	Gd 1.20 Gadolinium +3	Tb - Terbium +3,4	Dy 1.22 Dysprosium +3	Ho 1.23 Holmium +3	Er 1.24 Erbium +3	Tm 1.25 Thulium +2,3	Yb - Ytterbium +2,3	Lu 1.27 Lutetium +3	
89	(227) 90	(232.03 91	(232.03 92	(238.0289 93	(237) 94	(243) 95	(243) 96	(247) 97	(251) 98	(252) 99	(257) 100	(257) 101	(258) 102	(259) 103	(262)
Ac 1.1 Actinium +3	Th 1.3 Thorium +4	Pa 1.5 Protactinium +4,5	U 1.38 Uranium +3,4,5,6	Np 1.36 Neptunium +3,4,5,6	Pu 1.28 Plutonium +3,4,5,6	Am 1.3 Americium +3,4,5,6	Cm 1.3 Curium +3	Bk 1.3 Berkelium +3,4	Cf 1.3 Californium +3	Es 1.3 Einsteinium +3	Fm 1.3 Fermium +3	Md 1.3 Mendelevium +2,3	No 1.3 Nobelium +2,3	Lr - Lawrencium +3	

Actinides