

1 H 1.008 2 He 4.003 3 Li 6.94 4 Be 9.01 5 B 10.8 6 C 12.0 7 N 14.007 8 O 15.999 9 F 18.998 10 Ne 20.18 11 Na 22.990 12 Mg 24.306 13 Al 26.982 14 Si 28.086 15 P 30.974 16 S 32.06 17 Cl 35.453 18 Ar 39.95 19 K 39.098 20 Ca 40.08 21 Sc 44.956 22 Ti 47.88 23 V 50.942 24 Cr 52.00 25 Mn 54.938 26 Fe 55.847 27 Co 58.933 28 Ni 58.69 29 Cu 63.546 30 Zn 65.37 31 Ga 69.723 32 Ge 72.63 33 As 74.922 34 Se 78.96 35 Br 79.904 36 Kr 83.80 37 Rb 85.468 38 Sr 87.62 39 Y 88.906 40 Zr 91.224 41 Nb 92.906 42 Mo 95.94 43 Tc 98 44 Ru 101.07 45 Rh 102.905 46 Pd 106.4 47 Ag 107.868 48 Cd 112.411 49 In 114.82 50 Sn 118.71 51 Sb 121.757 52 Te 127.6 53 I 126.905 54 Xe 131.29 55 Cs 132.905 56 Ba 137.327 57 La 138.905 58 Ce 140.12 59 Pr 140.908 60 Nd 144.24 61 Pm 145 62 Sm 150.36 63 Eu 151.96 64 Gd 157.25 65 Tb 158.925 66 Dy 162.50 67 Ho 164.930 68 Er 167.26 69 Tm 168.934 70 Yb 173.054 71 Lu 174.967 72 Hf 178.49 73 Ta 180.948 74 W 183.85 75 Re 186.21 76 Os 190.23 77 Ir 192.22 78 Pt 195.084 79 Au 196.967 80 Hg 200.59 81 Tl 204.38 82 Pb 207.2 83 Bi 208.98 84 Po 209 85 At 210 86 Rn 222 87 Fr 223 88 Ra 226 89 Ac 227 90 Th 232.038 91 Pa 231.04 92 U 238.03 93 Np 237 94 Pu 244 95 Am 243 96 Cm 247 97 Bk 247 98 Cf 251 99 Es 252 100 Fm 257 101 Md 258 102 No 259 103 Lr 262 104 Rf 261 105 Db 262

57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
138.91	140.12	140.91	144.24	145	150.36	151.96	157.25	158.93	162.50	164.93	167.26	168.93	173.05	174.97

LANTHANUM SERIES

89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr	Rf	Ha
227	232.04	231.04	238.03	237	244	243	247	247	251	252	257	258	259	262	261	262

ACTINIUM SERIES

— INDICATES PRINCIPAL OXIDATIVE STATES

SEE TABLE BELOW FOR INTERPRETATION OF SYMBOLS