



ROYAL SOCIETY OF CHEMISTRY

Group 1		Alkaline earth metals Group 2										Transition metals										Halogens Group 17										Noble gases Group 18
H Hydrogen 1 1.008																															He Helium 2 4.003	
Li Lithium 3 6.94	Be Beryllium 4 9.012																					B Boron 5 10.81	C Carbon 6 12.011	N Nitrogen 7 14.007	O Oxygen 8 15.999	F Fluorine 9 18.998	Ne Neon 10 20.180					
Na Sodium 11 22.990	Mg Magnesium 12 24.305																					Al Aluminum 13 26.982	Si Silicon 14 28.085	P Phosphorus 15 30.974	S Sulfur 16 32.06	Cl Chlorine 17 35.45	Ar Argon 18 39.95					
Alkali metals		Alkaline earth metals										Transition metals										Halogens										Noble gases
Group 1		Group 2										Groups 3-12										Group 17										Group 18
K Potassium 19 39.098	Ca Calcium 20 40.078	Sc Scandium 21 44.956	Ti Titanium 22 47.867	V Vanadium 23 50.942	Cr Chromium 24 51.996	Mn Manganese 25 54.938	Fe Iron 26 55.845	Co Cobalt 27 58.933	Ni Nickel 28 58.693	Cu Copper 29 63.546	Zn Zinc 30 65.38	Ga Gallium 31 69.723	Ge Germanium 32 72.630	As Arsenic 33 74.922	Se Selenium 34 78.971	Br Bromine 35 79.904	Kr Krypton 36 83.798															
Rb Rubidium 37 85.468	Sr Strontium 38 87.62	Y Yttrium 39 88.906	Zr Zirconium 40 91.224	Nb Niobium 41 92.906	Mo Molybdenum 42 95.95	Tc Technetium 43 [98]	Ru Ruthenium 44 101.07	Rh Rhodium 45 102.906	Pd Palladium 46 106.42	Ag Silver 47 107.868	Cd Cadmium 48 112.414	In Indium 49 114.818	Sn Tin 50 118.710	Sb Antimony 51 121.760	Te Tellurium 52 127.60	I Iodine 53 126.904	Xe Xenon 54 131.293															
Cs Caesium 55 132.905	Ba Barium 56 137.327	La Lanthanum 57 138.905	Hf Hafnium 72 178.49	Ta Tantalum 73 180.948	W Tungsten 74 183.84	Re Rhenium 75 186.207	Os Osmium 76 190.23	Ir Iridium 77 192.221	Pt Platinum 78 195.084	Au Gold 79 196.967	Hg Mercury 80 200.592	Tl Thallium 81 204.38	Pb Lead 82 207.2	Bi Bismuth 83 208.980	Po Polonium 84 [209]	At Astatine 85 [210]	Rn Radon 86 [222]															
Fr Francium 87 [223]	Ra Radium 88 [226]	Ac Actinium 89 [227]	Rf Rutherfordium 104 [261]	Db Dubnium 105 [268]	Sg Seaborgium 106 [269]	Bh Bohrium 107 [270]	Hs Hassium 108 [269]	Mt Meitnerium 109 [270]	Ds Darmstadtium 110 [281]	Rg Roentgenium 111 [280]	Cn Copernicium 112 [285]	Nh Nihonium 113 [286]	Fl Flerovium 114 [289]	Mc Moscovium 115 [289]	Lv Livermorium 116 [293]	Ts Tennessine 117 [294]	Og Oganesson 118 [294]															
Alkali metals		Lanthanides										Actinides																				
Group 1		Lanthanides										Actinides																				
Ce Cerium 58 140.116	Pr Praseodymium 59 140.908	Nd Neodymium 60 144.242	Pm Promethium 61 [145]	Sm Samarium 62 150.36	Eu Europium 63 151.964	Gd Gadolinium 64 157.25	Tb Terbium 65 158.925	Dy Dysprosium 66 162.500	Ho Holmium 67 164.930	Er Erbium 68 167.259	Tm Thulium 69 168.934	Yb Ytterbium 70 173.045	Lu Lutetium 71 174.967																			
Th Thorium 90 232.038	Pa Protactinium 91 231.036	U Uranium 92 238.029	Np Neptunium 93 [237]	Pu Plutonium 94 [244]	Am Americium 95 [243]	Cm Curium 96 [247]	Bk Berkelium 97 [247]	Cf Californium 98 [251]	Es Einsteinium 99 [252]	Fm Fermium 100 [257]	Md Mendelevium 101 [258]	No Nobelium 102 [259]	Lr Lawrencium 103 [262]																			

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