



PERIODIC TABLE OF THE ELEMENTS

Period	GROUP 1 IA	GROUP 2 IIA	GROUP 3 IIIB	GROUP 4 IVB	GROUP 5 VB	GROUP 6 VIB	GROUP 7 VIIB	GROUP 8 VIII	GROUP 9 VIII	GROUP 10 VIII	GROUP 11 IB	GROUP 12 IIB	GROUP 13 IIIA	GROUP 14 IVA	GROUP 15 VA	GROUP 16 VIA	GROUP 17 VIIA	GROUP 18 VIIIA	
1	1 H Hydrogen 1.00794																	2 He Helium 4.002602	
2	3 Li Lithium 6.941	4 Be Beryllium 9.012182											5 B Boron 10.811	6 C Carbon 12.0107	7 N Nitrogen 14.0067	8 O Oxygen 15.9994	9 F Fluorine 18.9984032	10 Ne Neon 20.1797	
3	11 Na Sodium 22.98977	12 Mg Magnesium 24.305											13 Al Aluminum 26.981538	14 Si Silicon 28.0855	15 P Phosphorus 30.97361	16 S Sulfur 32.065	17 Cl Chlorine 35.453	18 Ar Argon 39.948	
4	19 K Potassium 39.0983	20 Ca Calcium 40.078	21 Sc Scandium 44.95591	22 Ti Titanium 47.867	23 V Vanadium 50.9415	24 Cr Chromium 51.9961	25 Mn Manganese 54.938049	26 Fe Iron 55.845	27 Co Cobalt 58.9332	28 Ni Nickel 58.6934	29 Cu Copper 63.546	30 Zn Zinc 65.409	31 Ga Gallium 69.723	32 Ge Germanium 72.64	33 As Arsenic 74.9216	34 Se Selenium 78.96	35 Br Bromine 79.904	36 Kr Krypton 83.798	
5	37 Rb Rubidium 85.4678	38 Sr Strontium 87.62	39 Y Yttrium 88.90585	40 Zr Zirconium 91.224	41 Nb Niobium 92.90638	42 Mo Molybdenum 95.94	43 Tc Technetium 98	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.9055	46 Pd Palladium 106.42	47 Ag Silver 107.8682	48 Cd Cadmium 112.411	49 In Indium 114.818	50 Sn Tin 118.71	51 Sb Antimony 121.76	52 Te Tellurium 127.6	53 I Iodine 126.90447	54 Xe Xenon 131.293	
6	55 Cs Cesium 132.90545	56 Ba Barium 137.327	Lanthanides Series		72 Hf Hafnium 178.49	73 Ta Tantalum 180.9479	74 W Tungsten 183.84	75 Re Rhenium 186.207	76 Os Osmium 190.23	77 Ir Iridium 192.217	78 Pt Platinum 195.078	79 Au Gold 196.96655	80 Hg Mercury 200.59	81 Tl Thallium 204.3833	82 Pb Lead 207.2	83 Bi Bismuth 208.98038	84 Po Polonium 209	85 At Astatine 210	86 Rn Radon 222
7	87 Fr Francium 223	88 Ra Radium 226	Actinides Series		104 Rf Rutherfordium 261	105 Db Dubnium 262	106 Sg Seaborgium 266	107 Bh Bohrium 264	108 Hs Hassium 277	109 Mt Meitnerium 268	110 Ds Darmstadtium 281	111 Rg Roentgenium 272	112 Cn Copernicium 285						

Legend

Atomic Number: 1, 1.00794
Symbol: H
Name: Hydrogen
Density: 0.0899 g/L
Melting Point: -252.87 °C

Atomic Weight: 1.00794
Electronegativity (Pauling): 2.2
Boiling Point (°C): -252.87

Phase at STP: Gas, Liquid, Solid, Synthetic

Categories

Non Metals	Poor Metals
Alkali Metals	Metalloids
Alkaline Earth Metals	Halogens
Transition Metals	Noble Gas
Rare Earth Metals	

Common Constants (Source: physics.nist.gov)

Absolute Zero	-273.15 °C	Gravitation Constant	G	6.67428x10 ⁻¹¹ m ³ kg ⁻¹ s ⁻²
Atomic Mass Unit	1.660539x10 ⁻²⁷ kg	Molar Gas Constant	R	8.314472 J mol ⁻¹ K ⁻¹
Avogadro Constant	6.022142x10 ²³ mol ⁻¹	Molar Volume (Ideal Gas)	Pi	0.02241410 m ³ /mol
Base of Natural Logarithms	e	Planck Constant	h	6.626069x10 ⁻³⁴ J s
Boltzmann constant	k	Proton-Electron Mass Ratio	m _p /m _e	1836.15267247
Electron Mass	m _e	Rydberg Constant	R _∞	10 973 732 m ⁻¹
Electron Radius (Classical)	r ₀	Second Radiation Constant	hc/k	0.01438769 m K
Electron Volt	eV	Speed of Light in a Vacuum	c	299 792 458 m/s
Elementary Charge	e	Speed of sound in air at STP		343.2 m/s
Faraday Constant	F	Standard Pressure		101 325 Pa
Fine-structure constant	α			
First Radiation Constant	2hc²			

NOTES:

- Density units are g/cm³ for solids and g/L or kg/cm³ at 0° Celsius for gases
- Atomic Weight based on 12°C
- [] indicate mass number of most stable isotope
- Common Oxidation States in bold
- Electron Config. based on IUPAC guidelines
- § indicates crystal structure is unusual or may require explanation
- (m) Metallic radius, (v) Covalent radius

References:

- Nist.gov, *Wolfram.com [Mathematic], CRC Handbook of Chemistry and Physics 81st Edition, 2000-2001, and others

Lanthanides	57 La Lanthanum 138.9055	58 Ce Cerium 140.116	59 Pr Praseodymium 140.90765	60 Nd Neodymium 144.24	61 Pm Promethium 145	62 Sm Samarium 150.36	63 Eu Europium 151.964	64 Gd Gadolinium 157.25	65 Tb Terbium 158.92534	66 Dy Dysprosium 162.5	67 Ho Holmium 164.93032	68 Er Erbium 167.259	69 Tm Thulium 168.93421	70 Yb Ytterbium 173.04	71 Lu Lutetium 174.967
	89 Ac Actinium 227	90 Th Thorium 232.0381	91 Pa Protactinium 231.03588	92 U Uranium 238.02891	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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