

Periodic Chart of the Elements

IMPORTANT ATOMIC CONSTANTS																		VIIA		INERT GASES															
Avogadro's Number: (N_A) = $(6.02257 \pm 0.00009) \times 10^{23}$ (g mole) ⁻¹ Boltzmann Constant (k) = $(1.38053 \pm 0.00006) \times 10^{-16}$ erg°K ⁻¹ Planck's Constant (h) = $(6.62554 \pm 0.00015) \times 10^{-27}$ erg-sec. Gas Constant per mole ($R_0 = Nk$) = $(8.31432 \pm 0.00034) \times 10^7$ erg (g mole) ⁻¹ °K ⁻¹ Molar Volume (V_0) = $(2.24136 \pm 0.00030) \times 10^4$ cm ³ mole ⁻¹																		1 H 1.008		2 He 4.003															
IA		IIA		IIIA		IVA		VA		VIA		VIIA		INERT GASES																					
3 Li 6.941		4 Be 9.012		5 B 10.81		6 C 12.011		7 N 14.007		8 O 15.999		9 F 18.998		10 Ne 20.179																					
11 Na 22.990		12 Mg 24.305		13 Al 26.982		14 Si 28.085		15 P 30.974		16 S 32.06		17 Cl 35.453		18 Ar 39.948																					
19 K 39.098		20 Ca 40.08		21 Sc 44.956		22 Ti 47.90		23 V 50.941		24 Cr 51.996		25 Mn 54.938		26 Fe 55.847		27 Co 58.933		28 Ni 58.70		29 Cu 63.546		30 Zn 65.38		31 Ga 69.72		32 Ge 72.59		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 91.22		41 Nb 92.906		42 Mo 95.94		43 Tc (97)		44 Ru 101.07		45 Rh 102.905		46 Pd 106.4		47 Ag 107.868		48 Cd 112.40		49 In 114.82		50 Sn 118.69		51 Sb 121.75		52 Te 127.60		53 I 126.904		54 Xe 131.30	
55 Cs 132.905		56 Ba 137.33		57 La 138.905		58 Ce 140.12		59 Pr 140.908		60 Nd 144.24		61 Pm (145)		62 Sm 150.4		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 173.04		71 Lu 174.97			
87 Fr (223)		88 Ra 226.025		89 Ac (227)		90 Th 232.038		91 Pa 231.036		92 U 238.029		93 Np 237.048		94 Pu (244)		95 Am (243)		96 Cm (247)		97 Bk (247)		98 Cf (251)		99 Es (254)		100 Fm (257)		101 Md (258)		102 No (259)		103 Lr (260)			

Numbers in () parenthesis are mass numbers of most stable isotope of the element

INTERNATIONAL ATOMIC WEIGHTS

Based on the Atomic Mass of ¹²C = 12

Name	Symbol	Atomic Number	Atomic Weight	Name	Symbol	Atomic Number	Atomic Weight
Actinium	Ac	89 (227)		Molybdenum	Mo	42	95.94
Aluminum	Al	13	26.98154	Neodymium	Nd	60	144.24*
Americium	Am	95 (243)		Neon	Ne	10	20.179*
Antimony	Sb	51	121.75*	Neptunium	Np	93	237.0482
Argon	Ar	18	39.948*	Nickel	Ni	28	58.70
Arsenic	As	33	74.9216	Niobium	Nb	41	92.9064
Astatine	At	85 (210)		Nitrogen	N	7	14.0067
Barium	Ba	56	137.33	Nobelium	No	102 (259)	
Berkelium	Bk	97 (247)		Osmium	Os	76	190.2
Beryllium	Be	4	9.01218	Oxygen	O	8	15.9994*
Bismuth	Bi	83	208.9804	Palladium	Pd	46	106.4
Boron	B	5	10.81	Phosphorus	P	15	30.97376
Bromine	Br	35	79.904	Platinum	Pt	78	195.09*
Cadmium	Cd	48	112.41	Plutonium	Pu	94 (244)	
Caesium	Cs	55	132.9054	Polonium	Po	84 (209)	
Calcium	Ca	20	40.08	Potassium	K	19	39.0983*
Californium	Cf	98 (251)		Praseodymium	Pr	59	140.9077
Carbon	C	6	12.011	Promethium	Pm	61 (145)	
Cerium	Ce	58	140.12	Protactinium	Pa	91	231.0359
Chlorine	Cl	17	35.453	Radium	Ra	88	226.0254
Chromium	Cr	24	51.996	Radon	Rn	86 (222)	
Cobalt	Co	27	58.9332	Rhenium	Re	75	186.207
Copper	Cu	29	63.546*	Rhodium	Rh	45	102.9055
Curium	Cm	96 (247)		Rubidium	Rb	37	85.4678*
Dysprosium	Dy	66	162.50*	Ruthenium	Ru	44	101.07*
Einsteinium	Es	99 (254)		Samarium	Sm	62	150.4
Erbium	Er	68	167.26*	Scandium	Sc	21	44.9559
Europium	Eu	63	151.96	Selenium	Se	34	78.96*
Fluorine	F	9	18.998403	Silicon	Si	14	28.0855*
Francium	Fr	87 (223)		Silver	Ag	47	107.868
Gadolinium	Gd	64	157.25*	Sodium	Na	11	22.98977
Gallium	Ga	31	69.72	Strontium	Sr	38	87.62
Germanium	Ge	32	72.59*	Sulfur	S	16	32.06
Gold	Au	79	196.9665	Tantalum	Ta	73	180.9479*
Hafnium	Hf	72	178.49*	Tellurium	Te	52	127.60*
Helium	He	2	4.00260	Terbium	Tb	65	158.9254
Holmium	Ho	67	164.9304	Thallium	Tl	81	204.37*
Hydrogen	H	1	1.0079	Thorium	Th	90	232.0381
Iodine	I	49	126.9045	Thulium	Tm	69	168.9342
Iridium	Ir	77	192.22*	Tin	Sn	50	118.69*
Iron	Fe	26	55.847*	Titanium	Ti	22	47.90*
Krypton	Kr	36	83.80	Tungsten	W	74	183.85*
Lanthanum	La	57	138.9055*	Uranium	U	92	238.029
Lawrencium	Lr	103 (260)		Vanadium	V	23	50.9414*
Lithium	Li	3	6.941*	Xenon	Xe	54	131.30
Lutetium	Lu	71	174.97	Ytterbium	Yb	70	173.04*
Magnesium	Mg	12	24.305	Yttrium	Y	39	88.9059
Manganese	Mn	25	54.9380	Zinc	Zn	30	65.38
Mendelevium	Md	101 (258)		Zirconium	Zr	40	91.22
Mercury	Hg	80	200.59*				

*These figures are considered reliable to ±1 in the last digit, or ±3 when followed by an asterisk.

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