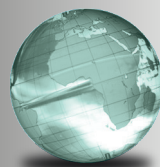


GLOBAL  
EDITION



# Chemistry

## *A Molecular Approach*

FIFTH EDITION

Nivaldo J. Tro



## List of Elements with Their Symbols and Atomic Masses

Element	Symbol	Atomic Number	Atomic Mass
Actinium	Ac	89	227.03 <sup>a</sup>
Aluminum	Al	13	26.98
Americium	Am	95	243.06 <sup>a</sup>
Antimony	Sb	51	121.76
Argon	Ar	18	39.95
Arsenic	As	33	74.92
Astatine	At	85	209.99 <sup>a</sup>
Barium	Ba	56	137.33
Berkelium	Bk	97	247.07 <sup>a</sup>
Beryllium	Be	4	9.012
Bismuth	Bi	83	208.98
Bohrium	Bh	107	264.12 <sup>a</sup>
Boron	B	5	10.81
Bromine	Br	35	79.90
Cadmium	Cd	48	112.41
Calcium	Ca	20	40.08
Californium	Cf	98	251.08 <sup>a</sup>
Carbon	C	6	12.01
Cerium	Ce	58	140.12
Cesium	Cs	55	132.91
Chlorine	Cl	17	35.45
Chromium	Cr	24	52.00
Cobalt	Co	27	58.93
Copernicium	Cn	112	285 <sup>a</sup>
Copper	Cu	29	63.55
Curium	Cm	96	247.07 <sup>a</sup>
Darmstadtium	Ds	110	271 <sup>a</sup>
Dubnium	Db	105	262.11 <sup>a</sup>
Dysprosium	Dy	66	162.50
Einsteinium	Es	99	252.08 <sup>a</sup>
Erbium	Er	68	167.26
Europium	Eu	63	151.96
Fermium	Fm	100	257.10 <sup>a</sup>
Flerovium	Fl	114	289 <sup>a</sup>
Fluorine	F	9	19.00
Francium	Fr	87	223.02 <sup>a</sup>
Gadolinium	Gd	64	157.25
Gallium	Ga	31	69.72
Germanium	Ge	32	72.63
Gold	Au	79	196.97
Hafnium	Hf	72	178.49
Hassium	Hs	108	269.13 <sup>a</sup>
Helium	He	2	4.003
Holmium	Ho	67	164.93
Hydrogen	H	1	1.008
Indium	In	49	114.82
Iodine	I	53	126.90
Iridium	Ir	77	192.22
Iron	Fe	26	55.85
Krypton	Kr	36	83.80
Lanthanum	La	57	138.91
Lawrencium	Lr	103	262.11 <sup>a</sup>
Lead	Pb	82	207.2
Lithium	Li	3	6.94
Livermorium	Lv	116	292 <sup>a</sup>
Lutetium	Lu	71	174.97
Magnesium	Mg	12	24.31
Manganese	Mn	25	54.94
Meitnerium	Mt	109	268.14 <sup>a</sup>

Element	Symbol	Atomic Number	Atomic Mass
Mendelevium	Md	101	258.10 <sup>a</sup>
Mercury	Hg	80	200.59
Molybdenum	Mo	42	95.95
Moscovium	Mc	115	289 <sup>a</sup>
Neodymium	Nd	60	144.24
Neon	Ne	10	20.18
Neptunium	Np	93	237.05 <sup>a</sup>
Nickel	Ni	28	58.69
Nihonium	Nh	113	284 <sup>a</sup>
Niobium	Nb	41	92.91
Nitrogen	N	7	14.01
Nobelium	No	102	259.10 <sup>a</sup>
Oganesson	Og	118	294 <sup>a</sup>
Osmium	Os	76	190.23
Oxygen	O	8	16.00
Palladium	Pd	46	106.42
Phosphorus	P	15	30.97
Platinum	Pt	78	195.08
Plutonium	Pu	94	244.06 <sup>a</sup>
Polonium	Po	84	208.98 <sup>a</sup>
Potassium	K	19	39.10
Praseodymium	Pr	59	140.91
Promethium	Pm	61	145 <sup>a</sup>
Protactinium	Pa	91	231.04
Radium	Ra	88	226.03 <sup>a</sup>
Radon	Rn	86	222.02 <sup>a</sup>
Rhenium	Re	75	186.21
Rhodium	Rh	45	102.91
Roentgenium	Rg	111	272 <sup>a</sup>
Rubidium	Rb	37	85.47
Ruthenium	Ru	44	101.07
Rutherfordium	Rf	104	261.11 <sup>a</sup>
Samarium	Sm	62	150.36
Scandium	Sc	21	44.96
Seaborgium	Sg	106	266.12 <sup>a</sup>
Selenium	Se	34	78.97
Silicon	Si	14	28.09
Silver	Ag	47	107.87
Sodium	Na	11	22.99
Strontium	Sr	38	87.62
Sulfur	S	16	32.06
Tantalum	Ta	73	180.95
Technetium	Tc	43	98 <sup>a</sup>
Tellurium	Te	52	127.60
Tennessine	Ts	117	294 <sup>a</sup>
Terbium	Tb	65	158.93
Thallium	Tl	81	204.38
Thorium	Th	90	232.04
Thulium	Tm	69	168.93
Tin	Sn	50	118.71
Titanium	Ti	22	47.87
Tungsten	W	74	183.84
Uranium	U	92	238.03
Vanadium	V	23	50.94
Xenon	Xe	54	131.293
Ytterbium	Yb	70	173.05
Yttrium	Y	39	88.91
Zinc	Zn	30	65.38
Zirconium	Zr	40	91.22

<sup>a</sup>Mass of longest-lived or most important isotope.

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