

Atomic & molecular masses of selected elements and compounds

Z	Symbol / formula	Name	Molecular mass
Elements			
1	H ₂	Hydrogen	2.0
2	He	Helium	4.0
3	Li	Lithium	7.0
4	Be	Beryllium	9.0
5	B	Boron	10.8
6	C	Carbon	12.0
7	N ₂	Nitrogen	28.0
8	O ₂	Oxygen	32.0
9	F ₂	Fluorine	38.0
10	Ne	Neon	20.2
11	Na	Sodium	23.0
12	Mg	Magnesium	24.3
13	Al	Aluminium	27.0
14	Si	Silicon	28.1
15	P	Phosphorus	31.0
16	S	Sulfur	32.0
17	Cl	Chlorine	35.5
18	Ar	Argon	39.9
19	K	Potassium	39.0
20	Ca	Calcium	40.1
21	Sc	Scandium	44.9
22	Ti	Titanium	47.9
23	V	Vanadium	50.9
24	Cr	Chromium	52.0
25	Mn	Manganese	54.9
26	Fe	Iron	55.8
27	Co	Cobalt	59.0
28	Ni	Nickel	58.7
29	Cu	Copper	63.6
30	Zn	Zinc	65.4
31	Ga	Gallium	69.7

Z	Symbol / formula	Name	Molecular mass
32	Ge	Germanium	72.6
33	P	Arsenic	75.0
34	Se	Selenium	79.0
35	Br	Bromine	80.0
36	Kr	Krypton	83.8
37	Rb	Rubidium	85.5
42	Mo	Molybdenum	96.0
45	Rh	Rhodium	102.9
46	Pd	Palladium	106.4
47	Ag	Silver	107.9
74	W	Tungsten	183.8
78	Pt	Platinum	195.0
79	Au	Gold	197.0
80	Hg	Mercury	200.6
82	Pb	Lead	207.2

Z	Symbol / formula	Name	Molecular mass
Compounds			
	NH ₃	Ammonia	17.0
	CO	Carbon monoxide	28.0
	CO ₂	Carbon dioxide	44.0
	CH ₄	Methane	16.0
	C ₂ H ₆	Ethane	30.1
	C ₃ H ₈	Propane	44.1
	C ₄ H ₁₀	Butane	58.1
	NO	Nitric oxide	30.0
	NO ₂	Nitrogen dioxide	46.0
	N ₂ O	Nitrous oxide	44.0
	N ₂ O ₄	Nitrogen tetroxide	92.0
	SO ₂	Sulfur dioxide	64.1
	SO ₃	Sulfur trioxide	80.1
	H ₂ O	Water	18.0
	C ₂ H ₂	Acetylene	26.0
	CHF ₃	Fluoroform (R23)	70.0
	O ₃	Ozone	48.0
	C ₆ H ₆	Benzene	78.1
	HCl	Hydrogen chloride	36.5
	HCN	Hydrogen cyanide	27.0
	H ₂ S	Hydrogen sulfide	34.1
	HF	Hydrogen fluoride	20.0
	PH ₃	Phosphine	34.0
	Air	78%N ₂ + 21%O ₂	29.0
	ClO ₂	Chlorine dioxide	67.5
	B ₂ H ₆	Diborane	27.7
	C ₂ H ₄ O	Ethylene oxide	44.0
	SeH ₂	Hydrogen selenide	81.0
	COCl ₂	Phosgene	98.9
	SiH ₄	Silane	32.1
	C ₄ H ₈ S	Tetrahydrothiophene	88.2