

## APPENDIX

### Atomic Number and Molar Mass of Elements

Element	Symbol	Atomic Number	Molar mass(g mol <sup>-1</sup> )	Element	Symbol	Atomic Number	Molar mass(g mol <sup>-1</sup> )
Actinium	Ac	89	227.03	Einsteinium	Es	99	(252)
Aluminium	Al	13	26.98	Erbium	Er	68	167.26
Americium	Am	95	(243)	Europium	Eu	63	151.96
Antimony	Sb	51	121.75	Fermium	Fm	100	(257.10)
Argon	Ar	18	39.95	Fluorine	F	9	19.00
Arsenic	As	33	74.92	Francium	Fr	87	(223)
Astatine	At	85	210	Gadolinium	Gd	64	157.25
Barium	Ba	56	137.34	Gallium	Ga	31	69.72
Berkelium	Bk	97	(247)	Germanium	Ge	32	72.61
Beryllium	Be	4	9.01	Gold	Au	79	196.97
Bismuth	Bi	83	208.98	Hafnium	Hf	72	178.49
Bohrium	Bh	107	(264)	Hassium	Hs	108	(269)
Boron	B	5	10.81	Helium	He	2	4.00
Bromine	Br	35	79.91	Holmium	Ho	67	164.93
Cadmium	Cd	48	112.40	Hydrogen	H	1	1.0079
Cesium	Cs	55	132.91	Indium	In	49	114.82
Calcium	Ca	20	40.08	Iodine	I	53	126.90
Californium	Cf	98	251.08	Iridium	Ir	77	192.2
Carbon	C	6	12.01	Iron	Fe	26	55.85
Cerium	Ce	58	140.12	Krypton	Kr	36	83.80
Chlorine	Cl	17	35.45	Lanthanum	La	57	138.91
Chromium	Cr	24	52.00	Lawrencium	Lr	103	(262.1)
Cobalt	Co	27	58.93	Lead	Pb	82	207.19
Copernicium	Cn	112	(277)	Lithium	Li	3	6.94
Copper	Cu	29	63.54	Lutetium	Lu	71	174.96
Curium	Cm	96	247.07	Magnesium	Mg	12	24.31
Darmstadtium	Ds	110	(271)	Manganese	Mn	25	54.94
Dubnium	Db	105	(263)	Meitnerium	Mt	109	(268)
Dysprosium	Dy	66	162.50	Mendelevium	Md	101	258.10

Element	Symbol	Atomic Number	Molar mass(g mol <sup>-1</sup> )
Mercury	Hg	80	200.59
Molybdenum	Mo	42	95.94
Neodymium	Nd	60	144.24
Neon	Ne	10	20.18
Neptunium	Np	93	(237.05)
Nickel	Ni	28	58.71
Niobium	Nb	41	92.91
Nitrogen	N	7	14.0067
Nobelium	No	102	(259)
Osmium	Os	76	190.2
Oxygen	O	8	16.00
Palladium	Pd	46	106.4
Phosphorus	P	15	30.97
Platinum	Pt	78	195.09
Plutonium	Pu	94	(244)
Polonium	Po	84	210
Potassium	K	19	39.10
Praseodymium	Pr	59	140.91
Promethium	Pm	61	(145)
Proactinium	Pa	91	231.04
Radium	Ra	88	(226)
Radon	Rn	86	(222)
Rhenium	Re	75	186.2
Rhodium	Rh	45	102.91
Roentgenium	Rg	111	(272)
Rubidium	Rb	37	85.47
Ruthenium	Ru	44	101.07
Rutherfordium	Rf	104	(261)
Samarium	Sm	62	150.35
Scandium	Sc	21	44.96

Element	Symbol	Atomic Number	Molar mass(g mol <sup>-1</sup> )
Seaborgium	Sg	106	(266)
Selenium	Se	34	78.96
Silicon	Si	14	28.08
Silver	Ag	47	107.87
Sodium	Na	11	22.99
Strontium	Sr	38	87.62
Sulphur	S	16	32.06
Tantalum	Ta	73	180.95
Technetium	Tc	43	(98.91)
Tellurium	Te	52	127.60
Terbium	Tb	65	158.92
Thallium	Tl	81	204.37
Thorium	Th	90	232.04
Thulium	Tm	69	168.93
Tin	Sn	50	118.69
Titanium	Ti	22	47.88
Tungsten	W	74	183.85
Ununtrium	Uut	113	(284)
Ununquadium	Uuq	114	(289)
Ununpentium	Uup	115	(288)
Ununhexium	Uuh	116	(289)
Ununseptium	Uus	117	(290)
Ununoctium	Uuo	118	(293)
Uranium	U	92	238.03
Vanadium	V	23	50.94
Xenon	Xe	54	131.30
Ytterbium	Yb	70	173.04
Yttrium	Y	39	88.91
Zinc	Zn	30	65.37
Zirconium	Zr	40	91.22

(The Value given in parenthesis is the molar mass of the isotope of largest known half-life)