

LIST OF THE KNOWN ELEMENTS

M. Ragheb

1/23/2002

Atomic Number	Symbol	Name	Atomic Weight (amu)	Density [gm/cm ³]
0	n	Neutron	1.008665	
1	H	Hydrogen	1.007940	0.0000899
2	He	Helium	4.002602	0.0001787
3	Li	Lithium	6.941000	0.53
4	Be	Beryllium	9.012182	1.848
5	B	Boron	10.811000	2.34
6	C	Carbon	12.010700	2.62
7	N	Nitrogen	14.006740	0.0012506
8	O	Oxygen	15.999400	0.001429
9	F	Fluorine	18.9984032	0.001696
10	Ne	Neon	20.179700	0.0009
11	Na	Sodium	22.989770	0.971
12	Mg	Magnesium	24.305000	1.738
13	Al	Aluminum, Aluminium	26.981538	2.702
14	Si	Silicon	28.085500	2.33
15	P	Phosphorus	30.973761	1.82
16	S	Sulphur, Sulfur	32.066000	2.07
17	Cl	Chlorine	35.452700	0.003214
18	Ar	Argon	39.948000	0.0017824
19	K	Potassium	39.098300	0.862
20	Ca	Calcium	40.078000	1.55
21	Sc	Scandium	44.955910	3.0
22	Ti	Titanium	47.867000	4.50
23	V	Vanadium	50.941500	5.8
24	Cr	Chromium	51.996100	7.19
25	Mn	Manganese	54.938049	7.43
26	Fe	Iron	55.845000	7.86
27	Co	Cobalt	58.933200	8.90
28	Ni	Nickel	58.693400	8.90
29	Cu	Copper	63.546000	8.96
30	Zn	Zinc	65.390000	7.14
31	Ga	Gallium	69.723000	5.907
32	Ge	Germanium	72.610000	5.323
33	As	Arsenic	74.921600	5.72
34	Se	Selenium	78.960000	4.79
35	Br	Bromine	79.904000	3.119
36	Kr	Krypton	83.800000	0.003708
37	Rb	Rubidium	85.467800	1.53
38	Sr	Strontium	87.620000	2.6
39	Y	Yttrium	88.905850	4.47
40	Zr	Zirconium	91.224000	6.4

41	Nb	Niobium, Columbium	92.906380	8.57
42	Mo	Molybdenum	95.940000	10.2
43	Tc	Technetium	[97.907200]	11.5
44	Ru	Ruthenium	101.070000	12.2
45	Rh	Rhodium	102.905500	12.4
46	Pd	Palladium	106.420000	12.02
47	Ag	Silver	107.868200	10.5
48	Cd	Cadmium	112.411000	8.65
49	In	Indium	114.818000	7.31
50	Sn	Tin	118.710000	7.30
51	Sb	Antimony	121.760000	6.684
52	Te	Tellurium	127.600000	6.24
53	I	Iodine	126.904470	4.93
54	Xe	Xenon	131.290000	0.00588
55	Cs	Cesium, Caesium	132.905450	1.873
56	Ba	Barium	137.327000	3.51
Lanthanides, Lanthanoids				
57	La	Lanthanum	138.905500	6.7
58	Ce	Cerium	140.116000	
59	Pr	Praseodymium	140.907650	
60	Nd	Neodymium	144.240000	7.0
61	Pm	Promethium	[144.912700]	6.475
62	Sm	Samarium	150.360000	7.54
63	Eu	Europium	151.964000	5.259
64	Gd	Gadolinium	157.250000	7.895
65	Tb	Terbium	158.925340	8.27
66	Dy	Dysprosium	162.500000	8.536
67	Ho	Holmium	164.930320	8.80
68	Er	Erbium	167.260000	9.05
69	Tm	Thulium	168.934210	9.33
70	Yb	Ytterbium	173.040000	6.98
71	Lu	Lutetium	174.967000	9.85
72	Hf	Hafnium	178.490000	13.2
73	Ta	Tantalum	180.947900	16.6
74	W	Tungsten, Wolfram	183.840000	19.3
75	Re	Rhenium	186.207000	
76	Os	Osmium	190.230000	22.40
77	Ir	Iridium	192.217000	22.42
78	Pt	Platinum	195.078000	
79	Au	Gold	196.966550	19.32
80	Hg	Mercury	200.590000	13.546
81	Tl	Thallium	204.383300	11.85
82	Pb	Lead	207.200000	11.34
83	Bi	Bismuth	208.980380	9.8
84	Po	Polonium	[208.982400]	9.4
85	At	Astatine	[209.987100]	
86	Rn	Radon	[222.017600]	0.00973

87		Fr	Francium	[223.019700]	
88		Ra	Radium	[226.025400]	5.0
	Actinides, Actinoids				
	89	Ac	Actinium	[227.027700]	10.07
	90	Th	Thorium	232.038100	11.7
	91	Pa	Protactinium	231.035880	15.4
	92	U	Uranium	238.028900	18.9
	93	Np	Neptunium	[237.048200]	20.45
	94	Pu	Plutonium	[244.064200]	19.8
	95	Am	Americium	[243.061400]	13.6
	96	Cm	Curium	[247.070300]	13.5
	97	Bk	Berkelium	[247.070300]	
	98	Cf	Californium	[251.079600]	
	99	Es	Einsteinium	[252.083000]	
	100	Fm	Fermium	[257.095100]	
	101	Md	Mendelevium	[258.098400]	
	102	No	Nobelium	[259.100900]	
103		Lr	Lawrencium	[262.109700]	
104		Rf	Rutherfordium	[261.108800]	
			Kurchatovium?		
105		Db	Dubnium	[262.114200]	
			Hahnium?		
106		Sg	Seaborgium	[266.121900]	
107		Bh	Bohrium	[264.124700]	
108		Hs	Hassium	[269.134100]	
109		Mt	Meitnerium	[268.138800]	
110		Uun	Ununnilium	[271.146100]	
111		Uuu	Unununium	[272.153500]	
112		Uub	Ununbium	[277.000000]	
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114		Uuq	Ununquadium	[289.000000]	
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116		Uuh	Ununhexium	[289.000000]	
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118		Uuo	Ununoctium	[293.000000]	

N.B.: Values in square brackets are for elements without naturally stable nuclides. The values listed are for the longest-lived isotope.