

THE CHEMICAL ELEMENTS

Element		Atomic		Density	M.Pt °C	B.Pt °C
		Number	Mass			
Actinium	Ac	89	227.00	10.1	1230	3100
Aluminium	Al	13	26.98	2.7	660	2400
Antimony	Sb	51	121.75	6.7	630	1440
Argon	Ar	18	39.95		-189	-186
Arsenic	As	33	74.92	5.7	815	
Astatine	At	85	210.00		250	350
Barium	Ba	56	137.34	3.6	704	1600
Beryllium	Be	4	9.01	1.8	1280	2500
Bismuth	Bi	83	208.98	9.8	271	1477
Boron	B	5	10.81	2.5	2300	3700
Bromine	Br	35	79.91		-7.2	58
Cadmium	Cd	48	112.40	8.7	321	768
Caesium	Cs	55	132.90	1.9	28.6	690
Calcium	Ca	20	40.08	1.5	651	1440
Carbon	C	6	12.01	2.3	3500	3900
Cerium	Ce	58	140.12	6.8	804	2900
Chlorine	Cl	17	35.45		-101	-34.1
Chromium	Cr	24	51.97	7.2	1900	2600
Cobalt	Co	27	58.98	8.9	1492	2900
Copper	Cu	29	63.54	8.9	1088	2580
Dysprosium	Dy	66	162.50	8.5	1500	2300
Erbium	Er	68	167.26	9.0	1525	2600
Europium	Eu	63	151.96	5.2	830	1450
Fluorine	F	9	19.00		-220	-188
Francium	Fr	87	223.00		30	650
Gadolinium	Gd	64	157.25	7.9	1320	2700
Gallium	Ga	31	69.72	5.9	29.8	2250
Germanium	Ge	32	72.59	5.4	959	2850
Gold	Au	79	196.97	19.3	1063	2660
Hafnium	Hf	72	178.49	13.3	2000	5300
Helium	He	2	4.03		-271	-269
Holmium	Ho	67	164.93	8.8	1500	2300
Hydrogen	H	1	1.01		-259	-253
Indium	In	49	114.82	7.3	157	2000
Iodine	I	53	126.90	4.9	113	183
Iridium	Ir	77	192.2	22.4	2443	4550
Iron	Fe	26	55.85	7.9	1539	2800
Krypton	Kr	36	83.80		-158	-153
Lanthanum	La	57	138.91	6.15	920	3400
Lead	Pb	82	207.19	11.34	327	1750
Lithium	Li	3	6.94	0.53	180	1330
Lutetium	Lu	71	174.97	9.8	1700	3300
Magnesium	Mg	12	24.31	1.74	650	1100
Manganese	Mn	25	54.94	7.44	1245	2100
Mercury	Hg	80	200.59	13.59	-39	357
Molybdenum	Mo	42	95.94	10.2	2620	4600
Neodymium	Nd	60	144.24	6.96	1024	3100

THE CHEMICAL ELEMENTS (cont'd)

Element		Atomic		Density	M.Pt °C	B.Pt °C
		Number	Mass			
Neon	Ne	10	20.18		-249	-246
Nickel	Ni	28	58.71	9.9	1453	2800
Niobium	Nb	41	92.91	8.57	2420	5100
Nitrogen	N	7	14.01		-203	-196
Osmium	Os	76	190.2	22.48	3000	4600
Oxygen	O	8	16.00		-218	-183
Palladium	Pd	46	106.4	12.0	1552	3200
Phosphorus	P	15	30.97		44	279
Platinum	Pt	78	195.09	21.45	1769	3800
Polonium	Po	84	209	9.4	254	960
Potassium	K	19	39.10	0.86	63	760
Praseodymium	Pr	59	140.91	6.8	940	3000
Promethium	Pm	61	147		1000	2700
Protactinium	Pa	91	231	15.4	1200	4000
Radium	Ra	88	226	5.0	700	1140
Radon	Rn	86	222		-71	-62
Rhenium	Re	75	186.2	20.5	3180	5600
Rhodium	Rh	45	102.91	12.44	1960	3700
Rubidium	Rb	37	85.47	1.53	39	710
Ruthenium	Ru	44	101.07	12.4	2300	4100
Samarium	Sm	62	150.35	7.5	1050	1600
Scandium	Sc	21	44.96	3.0	1400	2500
Selenium	Se	34	78.96	4.81	220	688
Silicon	Si	14	28.09	2.3	1410	2500
Silver	Ag	47	107.87	10.5	961	2180
Sodium	Na	11	22.99	0.97	98	883
Strontium	Sr	38	87.62	2.6	77	1450
Sulphur	S	16	32.06	207	113	445
Tantalum	Ta	73	180.95	16.6	2996	5500
Technetium	Tc	43	99	11.4	2100	4600
Tellurium	Te	52	127.60	6.24	450	997
Terbium	Tb	65	158.92	8.3	327	2500
Thallium	Tl	81	204.37	11.86	304	1460
Thorium	Th	90	232.04	11.5	1700	4200
Thulium	Tm	69	168.93	9.3	1600	2100
Tin	Sn	50	118.69	7.3	232	2600
Titanium	Ti	22	47.90	4.54	1680	3300
Tungsten	W	74	183.35	19.32	3380	5500
Uranium	U	92	288.03	19.05	1133	3800
Vanadium	V	23	50.94	6.1	1920	3400
Xenon	Xe	54	131.30		-112	-108
Ytterbium	Yb	70	173.04	7.0	824	1500
Yttrium	Y	39	88.91	4.6	1490	3000
Zinc	Zn	30	65.37	7.14	420	907
Zirconium	Zr	40	91.22	6.5	1857	4400

Atomic masses based on $^{12}_6\text{C} = 12$

Density given for solids at 20°C (293 K)

Melting and Boiling points rounded off to nearest degree