

Element Data

Atomic number	Symbol	Name	molar mass (g/mol)	Density (g/cm <sup>3</sup> )	Melting point (°C)	Boiling point (°C)	Electronegativity (Pauling)	Specific Heat (J/g°C)	Atomic radius (pm)	Ionic radius (pm)
89	Ac	Actinium	227.03	10.07	1230	3200	1.1	0.12	188	118
13	Al	Aluminum	26.98	2.7	660	2350	1.6	0.9	143	53
95	Am	Americium	241.06	13.67	990	2600	1.3	0.11	184	107
51	Sb	Antimony	121.75	6.69	631	1750	2.1	0.207	141	89
18	Ar	Argon	39.95	1.66	-189	-186		0.52	174	
33	As	Arsenic	74.92	5.78	613		2.2	0.33	121	222
85	At	Astatine	210		300	350	2			227
56	Ba	Barium	137.34	3.59	710	1640	0.89	0.204	224	136
97	Bk	Berkelium	249.08	14.79	986		1.3			87
4	Be	Beryllium	9.01	1.85	1285	2470	1.6	1825	112	27
83	Bi	Bismuth	208.98	8.9	271	1650	2	0.122	182	96
5	B	Boron	10.81	2.47	2030	3700	2	1026	88	12
35	Br	Bromine	79.91	3.12	-7	59	3	0.226	114	196
48	Cd	Cadmium	112.4	8.65	321	765	1.7	0.233	152	103
20	Ca	Calcium	40.08	1.53	840	1490	1.3	0.647	197	100
98	Cf	Californium	251.08				1.3			117
6	C	Carbon	12.01	2.27	3700		2.6	0.709	77	260
58	Ce	Cerium	140.12	6.71	800	3000	1.1	0.19	183	107
55	Cs	Cesium	132.91	1.87	28	678	0.79	0.24	272	170
17	Cl	Chlorine	35.45	1.66	-101	-34	3.2	0.48	99	181
24	Cr	Chromium	52	7.19	1860	2600	1.7	0.449	129	84
27	Co	Cobalt	58.93	8.8	1494	2900	1.9	0.421	125	82
29	Cu	Copper	63.54	8.93	1083	2567	1.9	0.385	128	72
96	Cm	Curium	247.07	13.3	1340		1.3			119
105	Db	Dubnium	262.11							
66	Dy	Dysprosium	162.5	8.53	1410	2600	1.2	0.173	177	91
99	Es	Einsteinium	254.09				1.3			116
68	Er	Erbium	167.26	9.04	1520	2600	1.2	0.168	176	89
63	Eu	Europium	151.96	5.25	820	1450		0.182	204	112
100	Fm	Fermium	257.1				1.3			115
9	F	Fluorine	19	1.51	-220	-188	4	0.824	64	133
87	Fr	Francium	223		27	677	0.7		270	180
64	Gd	Gadolinium	157.25	7.87	1310	3000	1.2	0.23	180	97
31	Ga	Gallium	69.72	5.91	30	2070	1.6	0.371	153	62
32	Ge	Germanium	72.59	5.32	937	2830	2	0.32	122	90
79	Au	Gold	196.97	19.28	1064	2807	2.5	0.128	144	91
72	Hf	Hafnium	178.49	13.28	2230	5300	1.3	0.14	159	84
108	Hs	Hassium	265							
2	He	Helium	4	0.12		-269		5193	128	
67	Ho	Holmium	164.93	8.8	1470	2300	1.2	0.165	177	89
1	H	Hydrogen	1.0079	0.089	-259	-253	2.2	14304	78	154
49	In	Indium	114.82	7.29	157	2050	1.8	0.233	167	72
53	I	Iodine	126.9	4.95	114	184	2.7	0.145	133	220
77	Ir	Iridium	192.2	22.55	2447	4550	2.2	0.13	136	89
26	Fe	Iron	55.85	7.87	1540	2760	1.8	0.449	128	82
36	Kr	Krypton	83.8	3	-157	-153		0.248		169
57	La	Lanthanum	138.91	6.17	920	2450	1.1	0.19	188	122
103	Lr	Lawrencium	257				1.3			112
82	Pb	Lead	207.19	11.34	328	1760	2.3	0.129	175	132
3	Li	Lithium	6.94	0.53	181	1347	1	3582	157	58
71	Lu	Lutetium	174.97	9.84	1700	3400	1.3	0.15	172	85
12	Mg	Magnesium	24.31	1.74	650	1100	1.3	1020	160	72
25	Mn	Manganese	54.94	7.47	1250	2120	1.6	0.48	137	91
109	Mt	Meitnerium	266							
101	Md	Mendelevium	258.1				1.3			114
80	Hg	Mercury	200.59	13.55	-39	357	2	0.14	155	112
42	Mo	Molybdenum	95.94	10.22	2620	4830	2.2	0.25	140	92
60	Nd	Neodymium	144.24	7	1024	3100	1.1	0.19	182	104
10	Ne	Neon	20.18	1.44	-249	-246		1030		
93	Np	Neptunium	237.05	20.45	640		1.4	0.12	131	110
28	Ni	Nickel	58.71	8.91	1455	2150	1.9	0.444	125	78
107	Nh	Nielsbohrium	262.12							
41	Nb	Niobium	92.91	8.58	2425	5000	1.6	0.25	147	74
7	N	Nitrogen	14.01	1.04	-210	-196	3	1042	74	171
102	No	Nobelium	255				1.3			113
76	Os	Osmium	190.2	22.58	3030	5000	2.2	0.13	135	89
8	O	Oxygen	16	1.46	-218	-183	3.4	0.92	66	140
46	Pd	Palladium	106.4	12	1554	3000	2.2	0.244	137	86
15	P	Phosphorus	30.97	1.82	44	280	2.2	0.769	110	212
78	Pt	Platinum	195.09	21.45	1772	3720	2.3	0.13	139	85
94	Pu	Plutonium	239.05	19.81	640	3200	1.3	0.13	151	108
84	Po	Polonium	210	9.4	254	960	2		167	65
19	K	Potassium	39.1	0.86	64	774	0.82	0.757	235	138
59	Pr	Praseodymium	140.91	6.78	935	3000	1.1	0.19	183	106

Element Data

Atomic number	Symbol	Name	molar mass (g/mol)	Density (g/cm <sup>3</sup> )	Melting point (°C)	Boiling point (°C)	Electronegativity (Pauling)	Specific Heat (J/g°C)	Atomic radius (pm)	Ionic radius (pm)
61	Pm	Promethium	146.92	7.22	1168	3300			181	106
91	Pa	Protactinium	231.04	15.37	1200	4000	1.5		161	113
88	Ra	Radium	226.03	5	700	1500	0.9	0.094	223	152
86	Rn	Radon	222	4.4	-71	-62		0.094		
75	Re	Rhenium	186.2	21.02	3180	5600	1.9	0.137	137	72
45	Rh	Rhodium	102.91	12.42	1963	3700	2.3	0.242	134	86
37	Rb	Rubidium	85.47	1.53	39	688	0.82	0.363	250	149
104	Rf	Rutherfordium	262.22		2673	6073				
44	Ru	Ruthenium	101.07	12.36	2310	4100	2.2	0.238	134	77
62	Sm	Samarium	150.35	7.54	1060	1600	1.2	0.197	180	111
21	Sc	Scandium	44.96	2.99	1540	2800	1.4	0.568	164	83
106	Sg	Seaborgium	263.12							
34	Se	Selenium	78.96	4.81	220	685	2.6	0.32	104	198
14	Si	Silicon	28.09	2.33	1410	2620	1.9	0.7	118	26
47	Ag	Silver	107.87	10.5	962	2212	1.9	0.232	144	113
11	Na	Sodium	22.99	0.97	98	883	0.93	1230	191	102
38	Sr	Strontium	87.62	2.58	770	1380	0.95	0.3	215	116
16	S	Sulfur	32.06	2.09	115	445	2.6	0.71	104	184
73	Ta	Tantalum	180.95	16.67	3000	5400	1.5	0.14	147	72
43	Tc	Technetium	98.91	11.5	2200	4600	1.9	0.24	135	95
52	Te	Tellurium	127.6	6.25	450	990	2.1	0.202	137	221
65	Tb	Terbium	158.92	8.27	1360	2500		0.18	178	93
81	Tl	Thallium	204.37	11.87	304	1460	2	0.129	171	88
90	Th	Thorium	232.04	11.73	1700	4500	1.3	0.113	180	101
69	Tm	Thulium	168.93	9.33	1550	2000	1.2	0.16	175	104
50	Sn	Tin	118.69	7.29	232	2720	2	0.228	158	93
22	Ti	Titanium	47.9	4.51	1660	3300	1.5	0.523	147	80
74	W	Tungsten	183.85	19.3	3387	5420	2.4	0.13	141	68
112	Uub	Ununbium	277							
110	Uun	Ununnilium	269							
113	Uut	Ununtrium								
111	Uuu	Unununium	272							
92	U	Uranium	238.03	18.95	1135	4000	1.4	0.12	138	103
23	V	Vanadium	50.94	6.11	1920	3400	1.6	0.489	135	72
54	Xe	Xenon	131.3	3.56	-112	-108	2.6	0.158	218	190
70	Yb	Ytterbium	173.04	6.97	824	1500		0.155	194	113
39	Y	Yttrium	88.91	4.48	1510	3300	1.2		182	106
30	Zn	Zinc	65.37	7.14	420	907	1.6	0.388	137	83
40	Zr	Zirconium	91.22	6.51	1850	4400	1.3	0.278	160	109