

TABLE A-15 PROPERTIES OF COMMON ELEMENTS

Name	Form/color at room temperature	Density (g/cm ³)†	Melting point (°C)	Boiling point (°C)	Common oxidation states
aluminum	silver metal	2.702	660.37	2467	3+
arsenic	gray metalloid	5.727 ¹⁴	817 (28 atm)	613 (<i>sublimes</i>)	3−, 3+, 5+
barium	bluish white metal	3.51	725	1640	2+
bromine	red-brown liquid	3.119	−7.2	58.78	1−, 1+, 3+, 5+, 7+
calcium	silver metal	1.54	839 ± 2	1484	2+
carbon	diamond	3.51	3500 (63.5 atm)	3930	2+, 4+
	graphite	2.25	3652 (<i>sublimes</i>)	—	
chlorine	green-yellow gas	3.214*	−100.98	−34.6	1−, 1+, 3+, 5+, 7+
chromium	gray metal	7.2028	1857 ± 20	2672	2+, 3+, 6+
cobalt	gray metal	8.9	1495	2870	2+, 3+
copper	red metal	8.92	1083.4 ± 0.2	2567	1+, 2+
fluorine	yellow gas	1.69‡	−219.62	−188.14	1−
germanium	gray metalloid	5.323 ²⁵	937.4	2830	4+
gold	yellow metal	19.31	1064.43	2808 ± 2	1+, 3+
helium	colorless gas	0.1785*	−272.2 (26 atm)	−268.9	0
hydrogen	colorless gas	0.0899*	−259.14	−252.8	1−, 1+
iodine	blue-black solid	4.93	113.5	184.35	1−, 1+, 3+, 5+, 7+
iron	silver metal	7.86	1535	2750	2+, 3+
lead	bluish white metal	11.343716	327.502	1740	2+, 4+
lithium	silver metal	0.534	180.54	1342	1+
magnesium	silver metal	1.745	648.8	1107	2+
manganese	gray-white metal	7.20	1244 ± 3	1962	2+, 3+, 4+, 6+, 7+
mercury	silver liquid metal	13.5462	−38.87	356.58	1+, 2+
neon	colorless gas	0.9002*	−248.67	−245.9	0
nickel	silver metal	8.90	1455	2732	2+, 3+
nitrogen	colorless gas	1.2506*	−209.86	−195.8	3−, 3+, 5+
oxygen	colorless gas	1.429*	−218.4	−182.962	2−
phosphorus	yellow solid	1.82	44.1	280	3−, 3+, 5+
platinum	silver metal	21.45	1772	3827 ± 100	2+, 4+
potassium	silver metal	0.86	63.25	760	1+
silicon	gray metalloid	2.33 ± 0.01	1410	2355	2+, 4+
silver	white metal	10.5	961.93	2212	1+
sodium	silver metal	0.97	97.8	882.9	1+
strontium	silver metal	2.6	769	1384	2+
sulfur	yellow solid	1.96	119.0	444.674	2−, 4+, 6+
tin	white metal	7.28	231.88	2260	2+, 4+
titanium	white metal	4.5	1660 ± 10	3287	2+, 3+, 4+
uranium	silver metal	19.05 ± 0.02 ²⁵	1132.3 ± 0.8	3818	3+, 4+, 6+
zinc	blue-white metal	7.14	419.58	907	2+

† Densities obtained at 20°C unless otherwise noted (superscript)

‡ Density of fluorine given in g/L at 1 atm and 15°C

* Densities of gases given in g/L at STP