

Periodic Table

Key

Atomic number → 8

Atomic symbol → **O**

Element name → oxygen

Atomic mass → 16.0

Melting point (°C) → -218

Boiling point (°C) → -183

Density of solid (g/cm³) → 1.43

Density of liquid (g/cm³) → 1.10

Density of gas (g/L) → 1.43

Atomic radius (pm) → 66

Name of element → oxygen

Color of element: black, blue, red

4 IVB	5 VB	6 VIB	7 VIIB	8 VIII	9
22 1800 3687 4.54 1.40 Ti titanium 47.9	23 1890 3680 5.98 1.55 V vanadium 50.9	24 1857 3672 7.20 1.40 Cr chromium 52.0	25 1244 1962 7.20 1.40 Mn manganese 54.9	26 1535 2750 7.87 1.40 Fe iron 55.8	27 1495 2870 8.9 1.35 Co cobalt 58.9
40 1832 4977 6.48 1.55 Zr zirconium 91.2	41 2448 5027 8.57 1.45 Nb niobium 92.9	42 2810 5590 10.2 1.45 Mo molybdenum 95.9	43 2532 4837 11.5 1.35 Tc technetium 98	44 2310 5600 12.4 1.30 Ru ruthenium 101.1	45 1968 5227 12.4 1.35 Rh rhodium 102.9
72 2227 4902 13.3 1.55 Hf hafnium 178.5	73 2666 5425 16.6 1.45 Ta tantalum 181.0	74 3410 5990 19.4 1.35 W tungsten 183.8	75 3180 5827 21.0 1.35 Re rhenium 186.2	76 3700 5900 22.5 1.30 Os osmium 190.2	77 2410 4190 22.4 1.35 Ir iridium 192.2
104 --- --- --- --- Rf rutherfordium (261)	105 --- --- --- --- Db dubnium (262)	106 --- --- --- --- Sg seaborgium (266)	107 --- --- --- --- Bh bohrium (264)	108 --- --- --- --- Hs hassium (269)	109 --- --- --- --- Mt meitnerium (268)

6	57 818 3484 6.15 1.85 La lanthanum 138.9	58 788 3445 6.68 1.85 Ce cerium 140.1	59 820 3520 6.64 1.85 Pr praseodymium 140.9	60 1021 3074 7.01 1.85 Nd neodymium 144.2	61 1042 3000 7.36 1.85 Pm promethium 144.9
7	89 1080 3000 10.1 1.95 Ac actinium (227)	90 1750 4150 11.7 1.80 Th thorium 232.0	91 1800 --- 15.4 1.80 Pa protactinium 231.0	92 1132 3218 16.1 1.75 U uranium 238.0	93 890 2902 20.5 1.75 Np neptunium (237)

of the Elements

Oxygen (O)
Reactive gas
Product of photosynthesis

Silicon (Si)
Metalloid
Used in computer chips

Aluminum (Al)
Low-density metal
Used in aircraft parts, cooking foil

13 IIIA	14 IVA	15 VA
5 2300 2590 2.98 85 B boron 10.8	6 3550 4827 2.26 70 C carbon 12.0	7 -218 -198 1.25 85 N nitrogen 14.0
13 860 2467 2.70 135 Al aluminum 27.0	14 1410 2355 2.33 110 Si silicon 28.1	15 44.1 280 1.52 100 P phosphorus 30.9
28 1455 2730 8.90 1.35 Ni nickel 58.7	29 1083 2587 8.92 1.55 Cu copper 63.5	30 400 967 7.14 1.55 Zn zinc 65.4
31 298 2400 5.90 1.50 Ga gallium 69.7	32 937 2830 5.35 1.25 Ge germanium 72.6	33 887 885 5.73 115 As arsenic 74.9
46 1554 2670 12.0 1.40 Pd palladium 106.4	47 883 2212 10.5 1.60 Ag silver 107.9	48 301 765 6.84 1.55 Cd cadmium 112.4
78 1772 3227 21.5 1.35 Pt platinum 195.1	79 1064 2808 19.3 1.55 Au gold 197.0	80 -38.0 357 13.5 1.50 Hg mercury 200.6
81 304 1457 11.85 190 Tl thallium 204.4	82 303 1740 11.3 1.80 Pb lead 207.2	83 271 1560 9.80 180 Bi bismuth 208.0
110 --- --- --- --- Uun ununium (269)	111 --- --- --- --- Uuu ununium (272)	112 --- --- --- --- Uub ununium (277)
113 --- --- --- --- Uuq ununium (289)	114 --- --- --- --- Uuq ununium (289)	

62 1074 1704 7.53 1.55 Sm samarium 150.4	63 822 1527 5.24 1.85 Eu europium 152.0	64 1312 3079 7.90 1.80 Gd gadolinium 157.3	65 1358 3230 8.35 1.75 Tb terbium 158.9	66 1412 2507 8.55 1.75 Dy dysprosium 162.5	67 1474 2700 8.80 1.75 Ho holmium 164.9
94 84 3232 16.8 1.75 Pu plutonium (244)	95 854 2800 16.3 1.75 Am americium (243)	96 1340 3110 13.5 --- Cm curium (247)	97 888 --- 14 --- Bk berkelium (247)	98 900 --- --- --- Cf californium (251)	99 890 --- --- --- Es einsteinium (252)