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Element name	Mercury	
	80	Atomic #
Symbol	Hg	
	200.59	Avg. Mass
Electronegativity	1.9	

**actinides

Lanthanum 57 La 138.91 1.1	Cerium 58 Ce 140.12 1.1	Praseodymium 59 Pr 140.91 1.1	Neodymium 60 Nd 144.24 1.1	Promethium 61 Pm (145) 1.1	Samarium 62 Sm 150.36 1.2	Europium 63 Eu 151.97 1.1	Gadolinium 64 Gd 157.25 1.2	Terbium 65 Tb 158.93 1.1	Dysprosium 66 Dy 162.50 1.2	Holmium 67 Ho 164.93 1.2	Erbium 68 Er 167.26 1.2	Thulium 69 Tm 168.93 1.3	Ytterbium 70 Yb 173.04 1.3
Actinium 89 Ac (227) 1.1	Thorium 90 Th 232.04 1.3	Protactinium 91 Pa 231.04 1.5	Uranium 92 U 238.03 1.4	Neptunium 93 Np (237) 1.4	Plutonium 94 Pu (244) 1.3	Americium 95 Am (243) 1.3	Curium 96 Cm (247) 1.3	Berkelium 97 Bk (247) 1.3	Californium 98 Cf (251) 1.3	Einsteinium 99 Es (252) 1.3	Fermium 100 Fm (257) 1.3	Mendelevium 101 Md (258) 1.3	Nobelium 102 No (259) 1.3

Polyatomic Elements and Acids

Diatomic Elements	Polyatomic Elements	Common Acids	
Br ₂ Bromine Cl ₂ Chlorine F ₂ Fluorine H ₂ Hydrogen I ₂ Iodine N ₂ Nitrogen O ₂ Oxygen	O ₃ Ozone P ₄ Phosphorus S ₈ Sulfur	HBr Hydrobromic HCl Hydrochloric HF Hydrofluoric HI Hydroiodic HClO Hypochlorous HClO ₃ Chloric HClO ₄ Perchloric	HNO ₂ Nitrous HNO ₃ Nitric H ₂ SO ₃ Sulfurous H ₂ SO ₄ Sulfuric H ₂ CO ₃ Carbonic H C ₂ H ₃ O ₂ Acetic (vinegar)

Positive Ions – Cations

+1	+2	+3	Transition Metals
Ammonium NH ₄ ⁺ Silver Ag ⁺ Hydrogen H ⁺ Hydronium H ₃ O ⁺ <i>Group 1 Elements</i>	Cadmium Cd ⁺² Zinc Zn ⁺² <i>Group 2 Elements</i>	Aluminum Al ⁺³	Roman Numerals Identify Charge (i.e. Lead IV Pb ⁺⁴)

Negative Ions - Anions

-1		-2	-3
Acetate CH_3COO^- , $\text{C}_2\text{H}_3\text{O}_2^-$	Hydrogen Sulfite HSO_3^-	Carbonate CO_3^{-2}	Arsenate AsO_4^{-3}
Hypochlorite ClO^-	Hydrogen Sulfate HSO_4^-	Chromate CrO_4^{-2}	Phosphate PO_4^{-3}
Chlorate ClO_3^-	Hydrogen Sulfide HS^-	Dichromate $\text{Cr}_2\text{O}_7^{-2}$	Phosphite PO_3^{-3}
Chlorite ClO_2^-	Hydroxide OH^-	Hydrogen Phosphate $\text{H}_2\text{PO}_4^{-2}$	<i>Group 5A non-metals</i>
Perchlorate ClO_4^-	Iodate IO_3^-	Oxalate $\text{C}_2\text{O}_2^{-2}$	
Cyanide CN^-	Nitrate NO_3^-	Silicate SiO_3^{-2}	
Dihydrogen Phosphate H_2PO_4^-	Nitrite NO_2^-	Sulfate SO_4^{-2}	
Hydride H^{1-}	Permanganate MnO_4^-	Sulfite SO_3^{-2}	
Bicarbonate HCO_3^-	Thiocyanate SCN^-	Thiosulfate $\text{S}_2\text{O}_3^{-2}$	
Hydrogen carbonate HCO_3^-	<i>Group 7A non-metals</i>	<i>Group 6A non-metals</i>	

Molecular Shape Information

VSEPR Geometry	Linear	Trigonal Planar	Bent	Tetrahedral	Trigonal Pyramidal	Bent
# of Covalent Bonds	2	3	2	4	3	2
# of Lone Pairs (Non-bonded)	0	0	1	0	1	2

Polar Bond Information

Electronegativity Difference	Bond Type
0 – 0.4	Non-Polar Covalent
0.5 – 1.9	Polar Covalent
≥ 2.0	Ionic