

Ion Sheet

+++ Positive Ions (Cations) +++

1+	2+	3+	4+
Ammonium, NH_4^+ Cesium, Cs^+ Copper(I), Cu^+ Hydrogen, H^+ Mercury(I), Hg_2^{2+} Potassium, K^+ Rubidium, Rb^+ Silver, Ag^+ Sodium, Na^+	Barium, Ba^{2+} Cadmium(II), Cd^{2+} Calcium, Ca^{2+} Chromium(II), Cr^{2+} Cobalt(II), Co^{2+} Copper(II), Cu^{2+} Iron(II), Fe^{2+} Lead(II), Pb^{2+} Magnesium, Mg^{2+} Manganese(II), Mn^{2+} Mercury(II), Hg^{2+} Nickel(II), Ni^{2+} Strontium, Sr^{2+} Tin(II), Sn^{2+} Zinc, Zn^{2+}	Aluminum, Al^{3+} Boron, B^{3+} Chromium(III), Cr^{3+} Cobalt(III), Co^{3+} Gallium, Ga^{3+} Gold(III), Au^{3+} Iron(III), Fe^{3+} Manganese(III), Mn^{3+} Nickel(III), Ni^{3+}	Lead(IV), Pb^{4+} Manganese(IV), Mn^{4+} Silicon(IV), Si^{4+} Tin(IV), Sn^{4+}

--- Negative Ions (Anions)---

1-	2-	3-	4-
Acetate, $\text{C}_2\text{H}_3\text{O}_2^-$ Azide, N_3^- Benzoate, $\text{C}_7\text{H}_5\text{O}_2^-$ Bicarbonate, HCO_3^- Bisulfite, HSO_3^- Bromide, Br^- Chlorate, ClO_3^- Chloride, Cl^- Chlorite, ClO_2^- Cyanide, CN^- Fluoride, F^- Hydroxide, OH^- Hypochlorite, ClO^- Iodide, I^- Nitrate, NO_3^- Nitrite, NO_2^- Perchlorate, ClO_4^- Permanganate, MnO_4^- Bromate, BrO_3^- Periodate, IO_4^- Peroxide, O_2^{2-}	Carbonate, CO_3^{2-} Chromate, CrO_4^{2-} Dichromate, $\text{Cr}_2\text{O}_7^{2-}$ Oxalate, $\text{C}_2\text{O}_4^{2-}$ Oxide, O^{2-} Selenate, SeO_4^{2-} Selenide, Se^{2-} Sulfate, SO_4^{2-} Sulfide, S^{2-} Sulfite, SO_3^{2-} Tartrate, $\text{C}_4\text{H}_4\text{O}_6^{2-}$ Thiosulfate, $\text{S}_2\text{O}_3^{2-}$	Arsenate, AsO_4^{3-} Arsenite, AsO_3^{3-} Borate, BO_3^{3-} Citrate, $\text{C}_6\text{H}_5\text{O}_7^{3-}$ Nitride, N^{3-} Phosphate, PO_4^{3-} Phosphide, P^{3-} Phosphite, PO_3^{3-}	Carbide, C^{4-}

Prefixes		Common Acids	Diatomic Elements
One- mono	Six – hexa	Hydrochloric acid HCl	Hydrogen H_2
Two- di	Seven – hepta	Sulfuric acid H_2SO_4	Nitrogen N_2
Three- tri	Eight – octa	Nitric HNO_3	Oxygen O_2
Four – tetra	Nine – nona	Phosphoric H_3PO_4	Flourine F_2
Five- penta	Ten - deca	Acetic $\text{HC}_2\text{H}_3\text{O}_2$	Chlorine Cl_2
		Common Base	Bromine Br_2
		Ammonia N	Iodine I_2