

Table of Common Ion Charges

	+ 1 Ions	+ 3 Ions	- 1 Ions cont.	- 3 Ions
<u>Stock System</u>	Hydrogen H Lithium Li Sodium Na Potassium K Rubidium Rb Cesium Cs <i>Cuprous</i> Cu Silver Ag Ammonium NH ₄ <i>*Mercurous</i> Hg ₂	Aluminum Al <i>Chromic</i> Cr <i>Ferric</i> Fe Antimony Sb Bismuth Bi Arsenic As	Perchlorate ClO ₄ Chlorate ClO ₃ Chlorite ClO ₂ Hypochlorite ClO Perhennate ReO ₄ Hydride H Bromate BrO ₃ Bisulfide HS Bisulfite HSO ₃	Phosphate PO ₄ Phosphide P Arsenite AsO ₃ Arsenate AsO ₄ Borate BO ₃ Phosphite PO ₃ Nitride N Ferricyanide Fe(CN) ₆
Roman Numerals are used in naming compounds containing metals that form more than one positive ion.	<i>*The Hg₂ ion is in the +1 column because the effective charge on each atom is +1. The total charge is +2.</i>	+ 4 Ions <i>Stannic</i> Sn <i>Plumbic</i> Pb Carbon C Silicon Si		- 4 Ions Ferrocyanide Fe(CN) ₆ Silicate SiO ₄
<u>example 1:</u> CuCl is either: cuprous chloride or copper I chloride	+ 2 Ions Magnesium Mg Calcium Ca Strontium Sr Barium Ba Radium Ra <i>Chromous</i> Cr <i>Cupric</i> Cu <i>Mercuric</i> Hg <i>Ferrous</i> Fe <i>Stannous</i> Sn Zinc Zn Nickel Ni Cadmium Cd Cobalt Co Beryllium Be <i>Plumbous</i> Pb	- 1 Ions Fluoride F Iodate IO ₃ Chloride Cl Bromide Br Iodide I Hydroxide OH Nitrate NO ₃ Nitrite NO ₂ Acetate CH ₃ COO Permanganate MnO ₄ Bisulfate HSO ₄ Bicarbonate HCO ₃ Cyanide CN Thiocyanate SCN	- 2 Ions Sulfate SO ₄ Sulfite SO ₃ Carbonate CO ₃ Chromate CrO ₄ Dichromate Cr ₂ O ₇ Sulfide S Oxide O Thiosulfate S ₂ O ₃ Thiosulfite S ₂ O ₂ Selenate SeO ₄ Oxalate C ₂ O ₄ Tartrate C ₄ H ₄ O ₆ Sulfide S Peroxide O ₂	Common Acids Acetic HC ₂ H ₃ O ₂ Carbonic H ₂ CO ₃ Hydrochloric HCl Nitric HNO ₃ Sulfuric H ₂ SO ₄ Phosphoric H ₃ PO ₄
<u>example 2:</u> CuCl ₂ is either: cupric chloride or copper II chloride				Common Greek Prefixes 1 mono 6 hexa 2 di 7 hepta 3 tri 8 octa 4 tetra 9 nona 5 penta 10 deca
<u>Note:</u> ous- lower charge ic- higher charge				

Positive ions are commonly referred to as cations and negative ions are commonly called anions.

The Noble Gases do not generally form compounds due to their filled set of "p" orbitals.

The prefix "bi" generally means that a hydrogen atom has been added to the root ion. eg. CO₃ is a carbonate while HCO₃ is a bicarbonate.

"thio" pertains to sulfur.