**COMMON POLYATOMIC IONS**

**Polyatomic Cations** molecular/covalent

**NH4+ ammonium** prefixes:

**H3O+ hydronium** 1 mono

2 di

**Polyatomic Anions** 3 tri

**OH- hydroxide** 4 tetra

**CN- cyanide** 5 penta

O22- peroxide 6 hexa

**CO32- carbonate** 7 hepta

**C2O42- oxalate** 8 octa

**NO2- nitrite** 9 nona

**NO3- nitrate** 10 deca

**PO33- phosphite**

**PO4- phosphate**

**SO32- sulfite**

**SO42- sulfate**

S2O32- thiosulfate

**ClO- hypochlorite**

**ClO2- chlorite**

**ClO3- chlorate**

**ClO4- perchlorate**

**CH3COO or C2H3O2- acetate**

AsO43- arsenate

BO33- borate

SiO32- silicate

**MnO4- permanganate**

CrO42- chromate

Cr2O72- dichromate

CHO2- formate

**HCO3- hydrogen carbonate or bicarbonate**

HSO3- hydrogen sulfite or bisulfite

HSO4- hydrogen sulfate or bisulfate

HPO42- hydrogen phosphate or biphosphate

H2PO4- dihydrogen phosphate

**Metals with more than one ion**

**Element Ion Stock system**

**Chromium Cr2+ chromium(II)**

**Cr3+ chromium(III)**

**Cobalt**

**Co2+ cobalt(II)**

**Co3+ cobalt(III)**

**Copper**

**Cu+ copper(I)**

**Cu2+ copper(II)**

**Iron**

**Fe2+ iron(II)**

**Fe3+ iron(III)**

**Lead**

**Pb2+ lead(II)**

**Pb4+ lead(IV)**

**Manganese**

**Mn2+ manganese(II)**

**Mn3+ manganese(III)**

**Mn4+ manganese(IV)**

**Mercury**

**Hg22+ mercury(I)** a diatomic elemental ion

**Hg2+ mercury(II)**

**Tin**

**Sn2+ tin(II)**

**Sn4+ tin(IV)**