

Common Polyatomic ions					
1- charge		2- charge		3- charge	
Formula	Name	Formula	Name	Formula	Name
H ₂ PO ₄ ⁻	Dihydrogen phosphate	HPO ₄ ²⁻	Hydrogen phosphate	PO ₄ ³⁻	Phosphate
C ₂ H ₃ O ₂ ⁻	Acetate	C ₂ O ₄ ²⁻	Oxalate	PO ₃ ³⁻	Phosphite
HSO ₃ ⁻	Hydrogen sulfite	SO ₃ ²⁻	Sulfite		
HSO ₄ ⁻	Hydrogen sulfate	SO ₄ ²⁻	Sulfate		
HCO ₃ ⁻	Hydrogen carbonate	CO ₃ ²⁻	Carbonate		
NO ₂ ⁻	Nitrite	CrO ₄ ²⁻	Chromate		
NO ₃ ⁻	Nitrate	Cr ₂ O ₇ ²⁻	Dichromate		
CN ⁻	Cyanide	SiO ₃ ²⁻	Silicate		
OH ⁻	Hydroxide				
MnO ₄ ⁻	Permanganate				
ClO ⁻	Hypochlorite			1 + charge	
ClO ₂ ⁻	Chlorite			Formula	Name
ClO ₃ ⁻	Chlorate			NH ₄ ⁺	Ammonium
ClO ₄ ⁻	Perchlorate				

Formulas and Names of Common Metal Ions with More than One Ionic Charge.

Formula	Stock Name	Classical Name
Cu ¹⁺	Copper(I) ion	Cuprous ion
Cu ²⁺	Copper(II) ion	Cupric ion
Fe ²⁺	Iron(II) ion	Ferrous ion
Fe ³⁺	Iron(III) ion	Ferric ion
Hg ₂ ²⁺	Mercury(I) ion* <i>diatomic</i>	Mercurous ion
Hg ²⁺	Mercury(II) ion	Mercuric ion
Pb ²⁺	Lead(II) ion	Plumbous ion
Pb ⁴⁺	Lead(IV) ion	Plumbic ion
Sn ²⁺	Tin(II) ion	Stannous ion
Sn ⁴⁺	Tin(IV) ion	Stannic ion
Cr ²⁺	Chromium(II) ion	Chromous ion
Cr ³⁺	Chromium(III) ion	Chromic ion
Mn ²⁺	Manganese(II) ion	Manganous ion
Mn ³⁺	Manganese(III) ion	Manganic ion
Co ²⁺	Cobalt(II) ion	Cobaltous ion
Co ³⁺	Cobalt(III) ion	Cobaltic ion

Prefixes Used in Naming Binary Molecular Compounds

Prefix	Number
Mono-	1
Di-	2
Tri-	3
Tetra-	4
Penta-	5
Hexa-	6
Hepta-	7
Octa-	8
Nona-	9
Deca-	10