Additional Ions for Nomenclature

N_3^- azide

COMMON IONS

Positive Ions (Cations)

1+

Ammonium (NH_4^+)
Cesium (Cs^+)
Copper(I) or cuprous (Cu^+)
Hydrogen (H^+)
Lithium (Li^+)
Potassium (K^+)
Silver (Ag^+)
Sodium (Na^+)

2+

Barium (Ba^{2+})
Cadmium (Cd^{2+})
Calcium (Ca^{2+})
Chromium(II) or chromous (Cr^{2+})
Cobalt(II) or cobaltous (Co^{2+})
Copper(II) or cupric (Cu^{2+})
Iron(II) or ferrous (Fe^{2+})
Lead(II) or plumbous (Pb^{2+})
Magnesium (Mg^{2+})
Manganese(II) or manganous (Mn^{2+})
Mercury(I) or mercurous (Hg_2^{2+})
Mercury(II) or mercuric (Hg^{2+})
Strontium (Sr^{2+})
Nickel(II) (Ni^{2+})
Tin(II) or stannous (Sn^{2+})
Zinc (Zn^{2+})

3+

Aluminum (Al^{3+})
Chromium(III) or chromic (Cr^{3+})
Iron(III) or ferric (Fe^{3+})

Negative Ions (Anions)

1–

Acetate ($C_2H_3O_2^-$)
Bromide (Br^-)
Chlorate (ClO_3^-)
Chloride (Cl^-)
Cyanide (CN^-)
Dihydrogen phosphate ($H_2PO_4^-$)
Fluoride (F^-)
Hydride (H^-)
Hydrogen carbonate or bicarbonate (HCO_3^-)
Hydrogen sulfite or bisulfite (HSO_3^-)
Hydroxide (OH^-)
Iodide (I^-)
Nitrate (NO_3^-)
Nitrite (NO_2^-)
Perchlorate (ClO_4^-)
Permanganate (MnO_4^-)
Thiocyanate (SCN^-)

2–

Carbonate (CO_3^{2-})
Chromate (CrO_4^{2-})
Dichromate ($Cr_2O_7^{2-}$)
Hydrogen phosphate (HPO_4^{2-})
Oxide (O^{2-})
Peroxide (O_2^{2-})
Sulfate (SO_4^{2-})
Sulfide (S^{2-})
Sulfite (SO_3^{2-})

3–

Arsenate (AsO_4^{3-})
Phosphate (PO_4^{3-})

Hydrate refers to water adsorbed to the molecule. Monohydrate would be one water; as seen above, hexahydrate refers to a molecule with 6 water molecules adsorbed. The water can be removed usually by heating the compound, but it does add to the molecular weight and needs to be included.

Anhydrous	Cobalt(II) chloride
cobalt(II) chloride	hexahydrate
$CoCl_2$	$Co(H_2O)_6Cl_2$

Positive ions (cations)	Negative ions (anions)
1+	**1-**
ammonium (NH_4^+)	acetate ($C_2H_3O_2^-$)
copper(I) (Cu^+)	azide (N_3^-)
hydrogen (H^+)	chlorate (ClO_3^-)
silver (Ag^+)	cyanide (CN^-)
	dihydrogen phosphate ($H_2PO_4^-$)
2+	hydride (H^-)
cadmium (Cd^{2+})	bicarbonate (HCO_3^-)
cobalt(II) (Co^{2+})	hydroxide (OH^-)
copper(II) (Cu^{2+})	nitrate (NO_3^-)
iron (Fe^{2+})	nitrite (NO_2^-)
lead (Pb^{2+})	perchlorate (ClO_4^-)
manganese(II) (Mn^{2+})	permanganate (MnO_4^-)
mercury(I) (Hg_2^{2+})	thiocyanate(SCN^-)
mercury(II) (Hg^{2+})	
nickel (Ni^{2+})	**2-**
tin (Sn^{2+})	carbonate (CO_3^{2-})
zinc (Zn^{2+})	chromate (CrO_4^{2-})
	dichromate ($Cr_2O_7^{2-}$)
3+	hydrogen phosphate (HPO_4^{2-})
aluminum (Al^{3+})	oxide (O^{2-})
chromium(III) (Cr^{3+})	peroxide (O_2^{2-})
iron(III) (Fe^{3+})	sulfate (SO_4^{2-})
	sulfide (S^{2-})
	sulfite (SO_3^{2-})
	3-
	nitride (N^{3-})
	phosphate (PO_4^{3-})
	phosphide (P^{3-})