

Common Polyatomic Ions

Anions

1-

acetate, CH_3COO^-
 amide, NH_2^-
 azide, N_3^-
 benzoate, $\text{C}_6\text{H}_5\text{COO}^-$
 bromate, BrO_3^-
 chlorate, ClO_3^-
 chlorite, ClO_2^-
 cyanate, OCN^-
 cyanide, CN^-
 dihydrogen phosphate, H_2PO_4^-
 formate, HCOO^-
 hydrogen carbonate, HCO_3^-
 (bicarbonate)
 hydrogen sulfate, HSO_4^-
 (bisulfate)
 hydrogen sulfide, HS^-
 (bisulfide or hydrosulfide)
 hydroxide, OH^-
 (called hydroxyl when aqueous)
 hypochlorite, ClO^-
 iodate, IO_3^-
 nitrate, NO_3^-
 nitrite, NO_2^-
 perchlorate, ClO_4^-
 permanganate, MnO_4^-
 thiocyanate, SCN^-
 (thiocyanato)
 triiodide, I_3^-
 vanadate, VO_3^-

2-

carbide, C_2^{2-}
 (saltlike)
 carbonate, CO_3^{2-}
 chromate, CrO_4^{2-}
 dichromate, $\text{Cr}_2\text{O}_7^{2-}$
 imide, NH^{2-}
 manganate, MnO_4^{2-}
 metasilicate, SiO_3^{2-}
 monohydrogen phosphate, HPO_4^{2-}
 oxalate, $\text{C}_2\text{O}_4^{2-}$
 peroxide, O_2^{2-}
 peroxydisulfate, $\text{S}_2\text{O}_8^{2-}$
 phthalate, $\text{C}_8\text{H}_4\text{O}_4^{2-}$
 polysulfide, S_x^{2-}
 selenate, SeO_4^{2-}
 sulfate, SO_4^{2-}
 sulfite, SO_3^{2-}
 tartrate, $\text{C}_4\text{H}_4\text{O}_6^{2-}$
 tellurate, TeO_4^{2-}
 tetraborate, $\text{B}_4\text{O}_7^{2-}$
 thiosulfate, $\text{S}_2\text{O}_3^{2-}$
 tungstate, WO_4^{2-}
 zincate, ZnO_2^{2-}

3-

aluminate, AlO_3^{3-}
 arsenate, AsO_4^{3-}
 borate, BO_3^{3-}
 citrate, $\text{C}_6\text{H}_5\text{O}_7^{3-}$
 phosphate, PO_4^{3-}

4-

orthosilicate, SiO_4^{4-}
 pyrophosphate, $\text{P}_2\text{O}_7^{4-}$

5-

tripolyphosphate, $\text{P}_3\text{O}_{10}^{5-}$

Cations

1+

ammonium, NH_4^+
 hydronium, H_3O^+