

Common Polyatomic Ions

Anions

1-

acetate, CH_3COO^- $\text{C}_2\text{H}_3\text{O}_2^-$

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^+