

Common Polyatomic Ions

Cations

- $\text{H}_3\text{O}^+ \rightarrow$ Hydronium
- $\text{NH}_4^+ \rightarrow$ Ammonium
- $\text{PH}_4^+ \rightarrow$ Phosphonium

Anions

Group 3



Group 4

Inorganic

- $\text{CN}^- \rightarrow$ Cyanide
- $\text{CO}_3^- \rightarrow$ Carbonate
- $\text{HCO}_3^- \rightarrow$ Bicarbonate
- $\text{SiO}_3^{2-} \rightarrow$ Silicate/Metasilicate
- $\text{SnO}_3^{2-} \rightarrow$ Stannate

Organic

- $\text{C}_2\text{O}_4^{2-} \rightarrow$ Oxalate
- $\text{C}_2\text{H}_3\text{O}_2^- \rightarrow$ Acetate
- $\text{C}_3\text{H}_5\text{O}_3^- \rightarrow$ Lactate/Propionate
- $\text{C}_6\text{H}_8\text{O}_7^{3-} \rightarrow$ Citrate
- $\text{C}_7\text{H}_5\text{O}_2^- \rightarrow$ Benzoate
- $\text{C}_7\text{H}_5\text{O}_3^- \rightarrow$ Salicylate

Group 5

- $\text{N}_3^- \rightarrow$ Azide
- $\text{NO}_3^- \rightarrow$ Nitrate
- $\text{NO}_2^- \rightarrow$ Nitrite
- $\text{PO}_4^{3-} \rightarrow$ Phosphate
- $\text{HPO}_4^{2-} \rightarrow$ Hydrogen Phosphate
- $\text{H}_2\text{PO}_4^- \rightarrow$ Dihydrogen Phosphate
- $\text{AsO}_4^{3-} \rightarrow$ Arsenate
- $\text{AsO}_3^{3-} \rightarrow$ Arsenite

Group 6

- $\text{O}_2^{2-} \rightarrow$ Peroxide
- $\text{OH}^- \rightarrow$ Hydroxide
- $\text{SO}_4^{2-} \rightarrow$ Sulfate/Sulphate
- $\text{SO}_3^{2-} \rightarrow$ Sulfite/Sulphite
- $\text{HSO}_4^- \rightarrow$ Bisulfate/Bisulfate
- $\text{HSO}_3^- \rightarrow$ Bisulfite/Bisulfite
- $\text{SCN}^- \rightarrow$ Thiocyanate
- $\text{S}_2\text{O}_3^{2-} \rightarrow$ Thiosulfate/Thiosulphate
- $\text{S}_2\text{O}_8^{2-} \rightarrow$ Peroxydisulfate/Peroxydisulphate
- $\text{SeO}_4^{2-} \rightarrow$ Selenate

Group 7

- $\text{FO}_3^- \rightarrow$ Fluorate
- $\text{ClO}_4^- \rightarrow$ Perchlorate
- $\text{ClO}_3^- \rightarrow$ Chlorate
- $\text{ClO}_2^- \rightarrow$ Chlorite
- $\text{ClO}^- \rightarrow$ Hypochlorite
- $\text{BrO}_3^- \rightarrow$ Bromate
- $\text{BrO}_2^- \rightarrow$ Bromite
- $\text{IO}_3^- \rightarrow$ Iodate
- $\text{IO}_2^- \rightarrow$ Iodite
- $\text{AtO}_3^- \rightarrow$ Astatate

Transitional Metal Anions

- $\text{CrO}_4^{2-} \rightarrow$ Chromate
- $\text{Cr}_2\text{O}_7^{2-} \rightarrow$ Dichromate
- $\text{MnO}_4^- \rightarrow$ Permanganate

- $\text{MnO}_4^{2-} \rightarrow$ Maganate
- $\text{WO}_4^{2-} \rightarrow$ Tungstate
- $\text{MoO}_4^{2-} \rightarrow$ Molybdate
- $\text{Fe}(\text{CN})_6^{4-} \rightarrow$ Ferrocyanide
- $\text{VO}_3^- \rightarrow$ Vanadate