

Polyatomic Ions

You will be responsible to know the following polyatomic ion names & formulas, as well as how to use rules of polyatomic ion naming to determine the names of related ions.

| <i>Ion name</i> | <i>Ion Formula</i> |
|----------------------------------|--------------------------------------|
| ammonium | NH_4^+ |
| cyanide | CN^- |
| hydroxide | OH^- |
| nitrate | NO_3^- |
| nitrite | NO_2^- |
| sulfate | SO_4^{2-} |
| sulfite | SO_3^{2-} |
| hydrogen sulfate (bisulfate) | HSO_4^- |
| carbonate | CO_3^{2-} |
| hydrogen carbonate (bicarbonate) | HCO_3^- |
| phosphate | PO_4^{3-} |
| hydrogen phosphate | HPO_4^{2-} |
| dihydrogen phosphate | H_2PO_4^- |
| permanganate | MnO_4^- |
| perchlorate | ClO_4^- |
| chlorate | ClO_3^- |
| chlorite | ClO_2^- |
| hypochlorite | ClO^- |