**AP Common Polyatomic Ions**

**(Alphabetical order by ion name)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Ion Symbol** | **Ion Name** | **Ion Symbol** |
| Acetate | CH3CO21-  or  CH3COO1- | Iodate | IO31- |
| Ammoniun | NH4 1+ | Nitrate | NO31- |
| Arsenate | AsO4 3- | Nitrite | NO21- |
| Azide | N3 1- | Oxalate | C2O42- |
| Bicarbonate or Hydrogen carbonate | HCO31- | Perchlorate | ClO41- |
| Bromate | BrO3 1- | Permanganate | MnO41- |
| Bromite | BrO2 1- | Peroxide | O22- |
| Carbonate | CO3 2- | Phosphate | PO4 3- |
| Chlorate | ClO31- | Phosphite | PO33- |
| Chlorite | ClO21- | Thiocyanate | SCN1- |
| Chromate | CrO4 2- | Sulfate | SO42- |
| Cyanide | CN 1-- | Sulfite | SO32- |
| Dichromate | Cr2O7 2- | Thiosulfate | S2O32- |
| Dihydrogen  Phosphate | H2PO41- |  |  |
| Dihydrogen  Phosphite | H2PO31- |  |  |
| Hydrogen Phosphate | HPO42- |  |  |
| Hydrogen Phosphite | HPO32- |  |  |
| Hydrogen Sulfate | HSO41- |  |  |
| Hydrogen  Sulfite | HSO31- |  |  |
| Hydronium | H3O+ |  |  |
| Hypochlorite | ClO1- |  |  |

**NOTE:** -ite ending means one less oxygen than the -ate form.   
  
**PREFIXES:**   
per- = one more oxygen than -ate   
hypo- = one less oxygen than –ite

**AP Common Polyatomic Ions**

**(Alphabetical order by ion formula)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Ion Symbol** | **Ion Name** | **Ion Symbol** |
| Arsenate | AsO4 3- | Permanganate | MnO41- |
| Bromite | BrO2 1- | Azide | N3 1- |
| Bromate | BrO3 1- | Ammonium | NH4 1+ |
| Oxalate | C2O42- | Nitrite | NO21- |
| Acetate | CH3CO21-  or  CH3COO1- | Nitrate | NO31- |
| Hypochlorite | ClO1- | Peroxide | O22- |
| Chlorite | ClO21- | Phosphite | PO33- |
| Chlorate | ClO31- | Phosphate | PO4 3- |
| Perchlorate | ClO41- | Sulfite | SO32- |
| Cyanide | CN 1-- | Thiocyanate | SCN1- |
| Carbonate | CO3 2- | Sulfate | SO42- |
| Dichromate | Cr2O7 2- | Thiosulfate | S2O32- |
| Chromate | CrO4 2- |  |  |
| Dihydrogen  Phosphite | H2PO31- |  |  |
| Dihydrogen  Phosphate | H2PO41- |  |  |
| Hydronium | H3O+ |  |  |
| Bicarbonate or Hydrogen carbonate | HCO31- |  |  |
| Hydrogen Phosphite | HPO32- |  |  |
| Hydrogen Phosphate | HPO42- |  |  |
| Hydrogen  Sulfite | HSO31- |  |  |
| Hydrogen Sulfate | HSO41- |  |  |
| Iodate | IO31- |  |  |

**NOTE:** -ite ending means one less oxygen than the -ate form.   
  
**PREFIXES:**   
per- = one more oxygen than -ate   
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