

Table of Selected Polyatomic Ions

Ions Sorted Alphabetically by Name

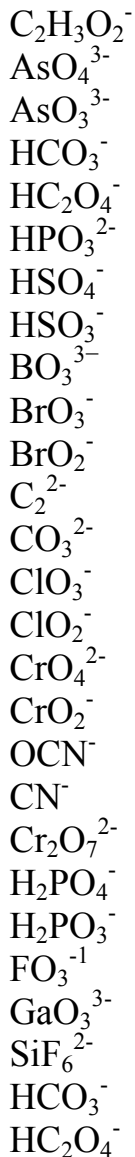
Cations:

ammonium
hydronium



Anions:

acetate
arsenate
arsenite
bicarbonate
binoxalate
biphosphite
bisulfate
bisulfite
borate
bromate
bromite
carbide
carbonate
chlorate
chlorite
chromate
chromite
cyanate
cyanide
dichromate
dihydrogen phosphate
dihydrogen phosphite
fluorate
gallate
hexafluorosilicate
hydrogen carbonate
hydrogen oxalate



hydrogen phosphate
hydrogen phosphite
hydrogen sulfate
hydrogen sulfide
hydrogen sulfite
hydroxide
hypobromite
hypochlorite
hypoiodite
hypophosphite
iodate
iodite
molybdate
nitrate
nitrite
oxalate
perbromate
perchlorate
periodate
permanganate
peroxide
phosphate
phosphite
pyrophosphate
selenate
silicate
sulfate
sulfite
tartrate
tetraborate
thiocyanate
thiosulfate

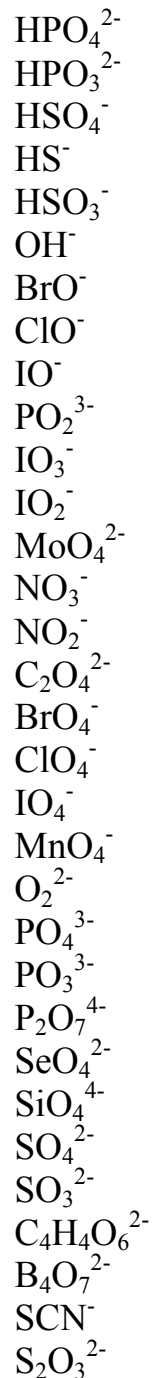


Table of Selected Polyatomic Ions

Ions Sorted by Charge and Grouped by Oxyanion (when appropriate)

+1 Cations

| | |
|-----------|------------------------|
| ammonium | NH_4^+ |
| hydronium | H_3O^+ |

-1 Anions

| | | | |
|----------------------|------------------------------------|----------------------|---------------------------|
| acetate | $\text{C}_2\text{H}_3\text{O}_2^-$ | dihydrogen phosphite | H_2PO_3^- |
| azide | N_3^- | fluorate | FO_3^- |
| bicarbonate | HCO_3^- | hydrogen carbonate | HCO_3^- |
| binoxalate | HC_2O_4^- | hydrogen oxalate | HC_2O_4^- |
| bisulfate | HSO_4^- | hydrogen sulfate | HSO_4^- |
| bisulfite | HSO_3^- | hydrogen sulfide | HS^- |
| perbromate | BrO_4^- | hydrogen sulfite | HSO_3^- |
| bromate | BrO_3^- | hydroxide | OH^- |
| bromite | BrO_2^- | hypoiodite | IO^- |
| hypobromite | BrO^- | iodate | IO_3^- |
| perchlorate | ClO_4^- | iodite | IO_2^- |
| chlorate | ClO_3^- | periodate | IO_4^- |
| chlorite | ClO_2^- | permanganate | MnO_4^- |
| hypochlorite | ClO^- | superoxide | O_2^- |
| chromite | CrO_2^- | thiocyanate | SCN^- |
| cyanate | OCN^- | nitrate | NO_3^- |
| cyanide | CN^- | nitrite | NO_2^- |
| dihydrogen phosphate | H_2PO_4^- | | |

-2 Anions

| | | | |
|--------------------|------------------------------|-------------|---------------------------------------|
| biphosphite | HPO_3^{2-} | molybdate | MoO_4^{2-} |
| carbide | C_2^{2-} | oxalate | $\text{C}_2\text{O}_4^{2-}$ |
| chromate | CrO_4^{2-} | selenate | SeO_4^{2-} |
| carbonate | CO_3^{2-} | sulfate | SO_4^{2-} |
| dichromate | $\text{Cr}_2\text{O}_7^{2-}$ | sulfite | SO_3^{2-} |
| peroxide | O_2^{2-} | tartrate | $\text{C}_4\text{H}_4\text{O}_6^{2-}$ |
| hexafluorosilicate | SiF_6^{2-} | tetraborate | $\text{B}_4\text{O}_7^{2-}$ |
| hydrogen phosphate | HPO_4^{2-} | thiosulfate | $\text{S}_2\text{O}_3^{2-}$ |
| hydrogen phosphite | HPO_3^{2-} | | |

-3 Anions

| | | | |
|----------|---------------------|---------------|--------------------|
| arsenate | AsO_4^{3-} | hypophosphite | PO_2^{3-} |
| arsenite | AsO_3^{3-} | phosphate | PO_4^{3-} |
| borate | BO_3^{3-} | phosphite | PO_3^{3-} |
| gallate | GaO_3^{3-} | | |

-4 Anions

| | |
|---------------|-----------------------------|
| pyrophosphate | $\text{P}_2\text{O}_7^{4-}$ |
| silicate | SiO_4^{4-} |

Note: Azide (N_3^-), superoxide (O_2^-), and peroxide (O_2^{2-}) are known to form stable compounds only with hydrogen and alkali metals.