

Polyatomic Ions

* Common ions – *learn these first*

+1 charge

* H_3O^+	hydronium		
* NH_4^+	ammonium	Hg_2^{2+}	mercury (I)

-1 charge

* $\text{C}_2\text{H}_3\text{O}_2^-$	acetate	* OH^-	hydroxide
NH_2^-	amide	IO^-	hypoiodate
$\text{C}_6\text{H}_5\text{COO}^-$	benzoate	IO_3^-	iodate
BrO^-	hypobromite	* IO_4^-	periodate
BrO_2^-	bromite	* MnO_4^-	permanganate
BrO_3^-	bromate	* NO_2^-	nitrite
BrO_4^-	perbromate	* NO_3^-	nitrate
* CN^-	cyanide	HC_2O_4^-	binoxalate
OCN^-	cyanate	SCN^-	thiocyanate
* HCO_3^-	bicarbonate (or hydrogen carbonate)	H_2PO_4^-	dihydrogen phosphate
ClO^-	hypochlorite	HS^-	bisulfide (or hydrogen sulfide)
ClO_2^-	chlorite	HSO_3^-	bisulfite (or hydrogen sulfite)
* ClO_3^-	chlorate	HSO_4^-	bisulfate (or hydrogen sulfate)
ClO_4^-	perchlorate	CNO^-	fulminate

-2 charge

$\text{B}_4\text{O}_7^{2-}$	tetraborate	$\text{C}_2\text{O}_4^{2-}$	oxalate
* CO_3^{2-}	carbonate	* O_2^{2-}	peroxide
$\text{C}_4\text{H}_4\text{O}_6^{2-}$	tartrate	HPO_4^{2-}	hydrogen phosphate
* CrO_4^{2-}	chromate	$\text{S}_2\text{O}_3^{2-}$	thiosulfate
$\text{Cr}_2\text{O}_7^{2-}$	dichromate	SeO_4^{2-}	selenate
SO_2^{2-}	hyposulfite	SiO_4^{2-}	silicate
* SO_3^{2-}	sulfite	SiF_6^{2-}	hexafluorosilicate
* SO_4^{2-}	sulfate		

-3 charge

AsO_4^{3-}	arsonate	PO_3^{3-}	phosphite
BO_3^{3-}	borate	* PO_4^{3-}	phosphate
$\text{C}_2\text{H}_5\text{O}_7^{3-}$	citrate		