## Names, Formulas, and Charges of Common Polyatomic Ions

1+Ammonium $NH_4^+$ Negative Ions (Anions)1-Acetate $C_2H_3O_2$ Bromate $BrO_3^-$ Chlorate $ClO_3^-$ Chlorite $ClO_2^-$ Cyanide $CN^-$ Hydride $H^-$ Hydrogen Carbonate (bicarbonate) $HCO_3^-$ Hydrogen Sulfate (bisulfate) $HSO_4^-$ Hydroxide $OH^-$ Hypochlorite $ClO^-$ Iodate $IO_3^-$ Nitrate $NO_3^-$ Nitrite $NO_2^-$ Perchlorate $ClO_4^-$ Permanganate $MnO_4^-$ Thiocyanate $SCN^-$	Positive Ion (Cation)			
1-Acetate $C_2H_3O_2$ BromateBrO3 <sup>-</sup> ChlorateClO3 <sup>-</sup> ChloriteClO2 <sup>-</sup> CyanideH <sup>-</sup> Hydrogen Carbonate (bicarbonate)HCO3 <sup>-</sup> Hydrogen Sulfate (bisulfate)HSO4 <sup>-</sup> HydroxideOH <sup>-</sup> HypochloriteClO <sup>-</sup> IodateIO3 <sup>-</sup> NitrateNO3 <sup>-</sup> NitriteNO2 <sup>-</sup> PerchlorateClO4 <sup>-</sup> ThiocyanateSCN <sup>-</sup> 2-CarbonateCO3 <sup>2-</sup>	1+			
1-Acetate $C_2H_3O_2$ BromateBrO3 <sup>-</sup> ChlorateClO3 <sup>-</sup> ChloriteClO2 <sup>-</sup> CyanideH <sup>-</sup> Hydrogen Carbonate (bicarbonate)HCO3 <sup>-</sup> Hydrogen Sulfate (bisulfate)HSO4 <sup>-</sup> HydroxideOH <sup>-</sup> HypochloriteClO <sup>-</sup> IodateIO3 <sup>-</sup> NitrateNO3 <sup>-</sup> NitriteNO2 <sup>-</sup> PerchlorateClO4 <sup>-</sup> ThiocyanateSCN <sup>-</sup> 2-CarbonateCO3 <sup>2-</sup>				
BromateBrO3^-ChlorateClO3^-ChloriteClO2^-CyanideH^-Hydrogen Carbonate (bicarbonate)HCO3^-Hydrogen Sulfate (bisulfate)HSO4^-HydroxideOH^-HypochloriteClO^-IodateIO3^-NitrateNO3^-NitriteNO2^-PerchlorateClO4^-PermanganateMnO4^-ThiocyanateSCN^-2-CarbonateCO3^2-	Negative Ions (Anions)			
Chlorate $ClO_3^-$ Chlorite $ClO_2^-$ Cyanide $CN^-$ Hydride $H^-$ Hydrogen Carbonate (bicarbonate) $HCO_3^-$ Hydrogen Sulfate (bisulfate) $HSO_4^-$ Hydroxide $OH^-$ Hypochlorite $ClO^-$ Iodate $IO_3^-$ Nitrate $NO_3^-$ Nitrite $NO_2^-$ Perchlorate $ClO_4^-$ Permanganate $MnO_4^-$ Thiocyanate $SCN^-$	1–			
Chlorite $ClO_2^-$ Cyanide $CN^-$ Hydride $H^-$ Hydrogen Carbonate (bicarbonate) $HCO_3^-$ Hydrogen Sulfate (bisulfate) $HSO_4^-$ Hydroxide $OH^-$ Hypochlorite $ClO^-$ Iodate $IO_3^-$ Nitrate $NO_3^-$ Nitrite $NO_2^-$ Perchlorate $ClO_4^-$ Permanganate $MnO_4^-$ Thiocyanate $SCN^-$				
Cyanide $CN^-$ Hydride $H^-$ Hydrogen Carbonate (bicarbonate) $HCO_3^-$ Hydrogen Sulfate (bisulfate) $HSO_4^-$ Hydroxide $OH^-$ Hypochlorite $CIO^-$ Iodate $IO_3^-$ Nitrate $NO_3^-$ Nitrite $NO_2^-$ Perchlorate $CIO_4^-$ Permanganate $MnO_4^-$ Thiocyanate $SCN^-$				
HydrideH <sup>-</sup> Hydrogen Carbonate (bicarbonate)HCO3 <sup>-</sup> Hydrogen Sulfate (bisulfate)HSO4 <sup>-</sup> HydroxideOH <sup>-</sup> HypochloriteClO <sup>-</sup> IodateIO3 <sup>-</sup> NitrateNO3 <sup>-</sup> NitriteNO2 <sup>-</sup> PerchlorateClO4 <sup>-</sup> PermanganateMnO4 <sup>-</sup> ThiocyanateSCN <sup>-</sup> 2-CarbonateCO3 <sup>2-</sup>				
Hydrogen Carbonate (bicarbonate)HCO3^-Hydrogen Sulfate (bisulfate)HSO4^-HydroxideOH^-HypochloriteClO^-IodateIO3^-NitrateNO3^-NitriteNO2^-PerchlorateClO4^-PermanganateMnO4^-ThiocyanateSCN^-2-CarbonateCO32				
Hydrogen Sulfate (bisulfate) $HSO_4^-$ Hydroxide $OH^-$ Hypochlorite $ClO^-$ Iodate $IO_3^-$ Nitrate $NO_3^-$ Nitrite $NO_2^-$ Perchlorate $ClO_4^-$ Permanganate $MnO_4^-$ Thiocyanate $SCN^-$ <b>2</b> -Carbonate $CO_3^{2-}$				
Hydroxide $OH^-$ Hypochlorite $CIO^-$ Iodate $IO_3^-$ Nitrate $NO_3^-$ Nitrite $NO_2^-$ Perchlorate $CIO_4^-$ Permanganate $MnO_4^-$ Thiocyanate $SCN^-$ 2-Carbonate $CO_3^{2-}$				
Hypochlorite $ClO^-$ Iodate $IO_3^-$ Nitrate $NO_3^-$ Nitrite $NO_2^-$ Perchlorate $ClO_4^-$ Permanganate $MnO_4^-$ Thiocyanate $SCN^-$ 2-Carbonate				
Iodate $IO_3^-$ Nitrate $NO_3^-$ Nitrite $NO_2^-$ Perchlorate $CIO_4^-$ Permanganate $MnO_4^-$ Thiocyanate $SCN^-$ 2-Carbonate $CO_3^{2-}$				
NitrateNO3 <sup>-</sup> NitriteNO2 <sup>-</sup> PerchlorateClO4 <sup>-</sup> PermanganateMnO4 <sup>-</sup> ThiocyanateSCN <sup>-</sup> 2-CarbonateCO3 <sup>2-</sup>				
NitriteNO2 <sup>-</sup> PerchlorateClO4 <sup>-</sup> PermanganateMnO4 <sup>-</sup> ThiocyanateSCN <sup>-</sup> <b>2</b> -CarbonateCO3 <sup>2-</sup>				
PerchlorateClO <sub>4</sub> -PermanganateMnO <sub>4</sub> -ThiocyanateSCN- <b>2</b> -CarbonateCO <sub>3</sub> <sup>2-</sup>				
Permanganate Thiocyanate $MnO_4^-$ SCN $^-$ 2-Carbonate $CO_3^{2-}$				
ThiocyanateSCN^- $2-$ Carbonate $CO_3^{2-}$				
<b>2</b> – Carbonate $CO_3^{2-}$				
	2–			
Chromate CrO <sub>4</sub> <sup>2–</sup>				
Dichromate Cr <sub>2</sub> O <sub>7</sub> <sup>2-</sup>				
Oxalate $C_2O_4^{2-}$				
Peroxide $O_2^{2-}$				
Sulfate SO <sub>4</sub> <sup>2–</sup>				
Sulfite SO <sub>3</sub> <sup>2–</sup>				
$3-$ Arsenate $AsO_4^{3-}$	3–			
Phosphate PO <sub>4</sub> <sup>3–</sup>				
Phosphite PO <sub>3</sub> <sup>3–</sup>				