

## General Solubility Rules

	All Group I (1) elements and $\text{NH}_4^+$ are soluble
$\text{NO}_3^-$ $\text{ClO}_3^-$ $\text{ClO}_4^-$ $\text{C}_2\text{H}_3\text{O}_2^-$	All Nitrates, Chlorates, Perchlorates and Acetates are soluble
$\text{Cl}^-$ $\text{Br}^-$ $\text{I}^-$	All Halides are soluble <b>EXCEPT</b> $\text{Ag}^+$ , $\text{Hg}_2^{2+}$ , and $\text{Pb}^{2+}$
$\text{SO}_4^{2-}$	All Sulfates are soluble <b>EXCEPT</b> $\text{Sr}^{2+}$ , $\text{Ba}^{2+}$ , $\text{Hg}_2^{2+}$ , $\text{Ca}^{2+}$ , and $\text{Pb}^{2+}$
$\text{CO}_3^{2-}$ $\text{PO}_4^{3-}$ $\text{C}_2\text{O}_4^{2-}$ $\text{CrO}_4^{2-}$	All Carbonates, Phosphates, Oxalates, and Chromates are insoluble <b>EXCEPT:</b> Group I (1) elements and $\text{NH}_4^+$
$\text{OH}^-$ $\text{O}^{2-}$	All Hydroxides and Oxides are insoluble <b>EXCEPT</b> Group I (1) elements, $\text{NH}_4^+$ , $\text{Sr}^{2+}$ , $\text{Ca}^{2+}$ , and $\text{Ba}^{2+}$
$\text{S}^{2-}$	All Sulfides are insoluble <b>EXCEPT:</b> Group I (1) and Group II (2) elements and $\text{NH}_4^+$ .