

General Solubility Rules

	All Group I (1) elements and NH_4^+ are soluble
NO_3^- ClO_3^- ClO_4^- $\text{C}_2\text{H}_3\text{O}_2^-$	All Nitrates, Chlorates, Perchlorates and Acetates are soluble
Cl^- Br^- I^-	All Halides are soluble EXCEPT Ag^+ , Hg_2^{2+} , and Pb^{2+}
SO_4^{2-}	All Sulfates are soluble EXCEPT Sr^{2+} , Ba^{2+} , and Pb^{2+}

CO_3^{2-} PO_4^{3-} $\text{C}_2\text{O}_4^{2-}$ CrO_4^{2-}	All Carbonates, Phosphates, Oxalates, and Chromates are insoluble EXCEPT: Group I (1) elements and NH_4^+
OH^- O^{2-}	All Hydroxides and Oxides are insoluble EXCEPT Group I (1) elements, NH_4^+ , Sr^{2+} , and Ba^{2+} . (Ca^{2+} slightly soluble)
S^{2-}	All Sulfides are insoluble EXCEPT: Group I (1) and Group II (2) elements and NH_4^+ .

* Insoluble compounds are those that precipitate when we mix equal volumes of 0.1M solutions of the corresponding ions.