Solubility Rules for Ionic Compounds

Substances	Solubility	Common Exceptions
Alkali metals and Ammonium compounds	Soluble	None
Nitrates, Acetates, Chlorates, and Perchlorates	Soluble	None
Chlorides, Bromides, and Iodides	Soluble	Ag ⁺ and Hg ₂ ²⁺ halides and Hg ²⁺ iodides are insoluble. PbCl ₂ , PbBr ₂ , PbI ₂ and HgBr ₂ are slightly soluble.
Sulfates	Soluble	Sr ²⁺ , Ba ²⁺ , Pb ²⁺ and Hg ₂ ²⁺ sulfates are insoluble. CaSO ₄ and Ag ₂ SO ₄ sulfate are slightly soluble.
Hydroxides	Insoluble	Alkali metal and Ba ²⁺ hydroxides are soluble. Sr(OH) ₂ and Ca(OH) ₂ are slightly soluble.
Sulfides, Carbonates, Phosphates	Insoluble	Alkali metal and NH ₄ ⁺ compounds are soluble. CaS, SrS and BaS are soluble.