Solubility Rules

- All compounds containing NO₃⁻, C₂H₃O₂⁻, ClO₃⁻ and ClO₄⁻ are **Soluble** (aq).
- All compounds containing an alkali metal cation* or NH₄⁺ are **Soluble** (aq).
- All compounds containing Cl⁻, Br⁻ and I⁻ are **Soluble** (aq) except those containing Ag⁺, Hg₂²⁺, Pb²⁺ and Cu⁺.
- All compounds containing OH⁻ and S²⁻ are **Insoluble** (s) except those containing an alkali metal cation*, NH₄⁺, Ca²⁺, Sr²⁺ and Ba²⁺.
- All compounds containing CO₃²⁻ and PO₄³⁻ are **Insoluble** (s) except those containing an alkali metal cation* and NH₄⁺.
- All compounds containing SO_4^{2-} are **Soluble** (aq) except those containing Sr^{2+} , Ba^{2+} , Ag^+ , Hg_2^{2+} and Pb^{2+} .

^{*}Alkali metal cations are Li⁺, Na⁺, K⁺, Rb⁺, and Cs⁺