

SOLUBILITY OF COMMON COMPOUNDS IN WATER

The term soluble here means > 0.1 mol/L at 25°C.

Negative Ions (Anions)	Positive Ions (Cations)	Solubility of Compounds
All	Alkali ions: Li ⁺ , Na ⁺ , K ⁺ , Rb ⁺ , Cs ⁺ , Fr ⁺	Soluble
All	Hydrogen ion: H ⁺	Soluble
All	Ammonium ion: NH ₄ ⁺	Soluble
Nitrate, NO ₃ ⁻	All	Soluble
or Chloride, Cl ⁻ or Bromide, Br ⁻ or Iodide, I ⁻	<div style="display: flex; align-items: center;"> All others Ag⁺, Pb²⁺, Cu⁺ </div>	<div style="display: flex; justify-content: space-between;"> Soluble Low Solubility </div>
Sulphate, SO ₄ ²⁻	<div style="display: flex; align-items: center;"> All others Ag⁺, Ca²⁺, Sr²⁺, Ba²⁺, Pb²⁺ </div>	<div style="display: flex; justify-content: space-between;"> Soluble Low Solubility </div>
Sulphide, S ²⁻	<div style="display: flex; align-items: center;"> Alkali ions, H⁺, NH₄⁺, Be²⁺, Mg²⁺, Ca²⁺, Sr²⁺, Ba²⁺ All others </div>	<div style="display: flex; justify-content: space-between;"> Soluble Low Solubility </div>
Hydroxide, OH ⁻	<div style="display: flex; align-items: center;"> Alkali ions, H⁺, NH₄⁺, Sr²⁺ All others </div>	<div style="display: flex; justify-content: space-between;"> Soluble Low Solubility </div>
or Phosphate, PO ₄ ³⁻ or Carbonate, CO ₃ ²⁻ or Sulphite, SO ₃ ²⁻	<div style="display: flex; align-items: center;"> Alkali ions, H⁺, NH₄⁺ All others </div>	<div style="display: flex; justify-content: space-between;"> Soluble Low Solubility </div>