



# SOLUBILITY RULES CHART

	GROUP I ALKALI METALS				GROUP II ALKALINE EARTH METALS			TRANSITION METALS					POST-TRANSITION METALS	
	Ammonium (NH <sub>4</sub> <sup>+</sup> )	Lithium (Li <sup>+</sup> )	Sodium (Na <sup>+</sup> )	Potassium (K <sup>+</sup> )	Magnesium (Mg <sup>2+</sup> )	Calcium (Ca <sup>2+</sup> )	Barium (Ba <sup>2+</sup> )	Iron (II) (Fe <sup>2+</sup> )	Iron (III) (Fe <sup>3+</sup> )	Copper (II) (Cu <sup>2+</sup> )	Silver (Ag <sup>+</sup> )	Zinc (Zn <sup>2+</sup> )	Lead (II) (Pb <sup>2+</sup> )	Aluminum (Al <sup>3+</sup> )
Fluoride (F <sup>-</sup> )	SOLUBLE	SLIGHTLY SOLUBLE	SOLUBLE	SOLUBLE	INSOLUBLE	INSOLUBLE	SLIGHTLY SOLUBLE	SLIGHTLY SOLUBLE	SLIGHTLY SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	INSOLUBLE	SLIGHTLY SOLUBLE
Chloride (Cl <sup>-</sup> )	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	INSOLUBLE	SOLUBLE	INSOLUBLE	SOLUBLE
Bromide (Br <sup>-</sup> )	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	INSOLUBLE	SOLUBLE	SLIGHTLY SOLUBLE	SOLUBLE
Iodide (I <sup>-</sup> )	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE			INSOLUBLE		INSOLUBLE	SOLUBLE
Chlorate (ClO <sub>3</sub> <sup>-</sup> )	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE		SOLUBLE		SOLUBLE		SOLUBLE	SOLUBLE
Hydroxide (OH <sup>-</sup> )		SOLUBLE	SOLUBLE	SOLUBLE	INSOLUBLE	SLIGHTLY SOLUBLE	SOLUBLE	INSOLUBLE	INSOLUBLE	INSOLUBLE	SLIGHTLY SOLUBLE	INSOLUBLE	INSOLUBLE	INSOLUBLE
Sulfite (SO <sub>3</sub> <sup>2-</sup> )	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	INSOLUBLE	INSOLUBLE				INSOLUBLE	INSOLUBLE	INSOLUBLE	
Sulfate (SO <sub>4</sub> <sup>2-</sup> )	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SLIGHTLY SOLUBLE	INSOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SLIGHTLY SOLUBLE	SOLUBLE	INSOLUBLE	SOLUBLE
Carbonate (CO <sub>3</sub> <sup>2-</sup> )	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	INSOLUBLE	INSOLUBLE	INSOLUBLE	INSOLUBLE		INSOLUBLE	INSOLUBLE	INSOLUBLE	INSOLUBLE	
Nitrite (NO <sub>2</sub> <sup>-</sup> )	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE				INSOLUBLE		SOLUBLE	
Nitrate (NO <sub>3</sub> <sup>-</sup> )	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE
Phosphate (PO <sub>4</sub> <sup>3-</sup> )	SOLUBLE	INSOLUBLE	SOLUBLE	SOLUBLE	INSOLUBLE	INSOLUBLE	INSOLUBLE	INSOLUBLE	INSOLUBLE	INSOLUBLE	INSOLUBLE	INSOLUBLE	INSOLUBLE	INSOLUBLE