GUIDELINES TO PREDICT THE SOLUBILITY OF IONIC COMPOUNDS

SOLUBLE COMPOUNDS	Exceptions
Almost all salts of Na ⁺ , K ⁺ , NH ₄ ⁺	
Salts of: nitrate, NO3 ⁻ chlorate, ClO3 ⁻ perchlorate, ClO4 ⁻ acetate, CH3CO2 ⁻	
Almost all salts of Cl ⁻ , Br ⁻ , I ⁻	Halides of Ag ⁺ , Hg ₂ ²⁺ , Pb ²⁺
Salts containing F ⁻	Fluorides of Mg ²⁺ , Ca ²⁺ , Sr ²⁺ , Ba ²⁺ , Pb ²⁺
Salts of sulfate, SO42-	Sulfates of Ca ²⁺ , Sr ²⁺ , Ba ²⁺ , Pb ²⁺ , Ag ⁺

INSOLUBLE COMPOUNDS	
	EXCEPTIONS
Most salts of:	
Carbonate, CO3 ²⁻	Salts of NH_4^* and the alkali metal cations
Phosphate, PO4 ³⁻	
Oxalate, C2O42-	
Chromate, CrO4 ²⁻	
Sulfide, S ^{2–}	
Most metal hydroxides and oxides	Alkali metal hydroxides and Ba(OH)2 and Sr(OH)2