

CH 221 Solubility Table for Ionic Compounds

SOLUBLE COMPOUNDS	
Almost all salts of Na^+ , K^+ , NH_4^+	
Salts of nitrate, NO_3^- chlorate, ClO_3^- perchlorate, ClO_4^- acetate, CH_3CO_2^-	
EXCEPTIONS	
Almost all salts of Cl^- , Br^- , I^-	Halides of Ag^+ , Hg_2^{2+} , Pb^{2+}
Compounds containing F^-	Fluorides of Mg^{2+} , Ca^{2+} , Sr^{2+} , Ba^{2+} , Pb^{2+}
Salts of sulfate, SO_4^{2-}	Sulfates of Ca^{2+} , Sr^{2+} , Ba^{2+} , Pb^{2+}
INSOLUBLE COMPOUNDS	
Most salts of carbonate, CO_3^{2-} phosphate, PO_4^{3-} oxalate, $\text{C}_2\text{O}_4^{2-}$ chromate, CrO_4^{2-}	Salts of NH_4^+ and the alkali metal cations
Most metal sulfides, S^{2-}	
Most metal hydroxides and oxides	

Note: Use this table for all CH 221 solubility questions!