

Ions That Form <i>Soluble</i> Compounds	Exceptions
ammonium and Group 1 ions (NH_4^+ , Li^+ , Na^+ , etc.)	
chlorate, perchlorate and nitrate (ClO_3^- , ClO_4^- , NO_3^- ,)	
hydrogen carbonate and acetate (HCO_3^- , CH_3COO^- <u>or</u> $\text{C}_2\text{H}_3\text{O}_2^-$)	
halides (Cl^- , Br^- , I^-)	when combined with Ag^+ , Pb^{2+} and Hg_2^{2+}
sulfates (SO_4^{2-})	when combined with Ag^+ , Ca^{2+} , Sr^{2+} , Ba^{2+} , and Pb^{2+}

Ions That Form <i>Insoluble</i> Compounds	Exceptions
carbonate (CO_3^{2-})	when combined with ammonium and Group 1 ions
chromate (CrO_4^{2-})	when combined with ammonium, Group 1 ions, Ca^{2+} and Mg^{2+}
phosphate (PO_4^{3-})	when combined with ammonium and Group 1 ions
sulfide (S^{2-})	when combined with ammonium and Group 1 ions
hydroxide (OH^-)	when combined with ammonium, Group 1 ions, Ca^{2+} , Ba^{2+} , and Sr^{2+}