

Solubility Rules for Common Ionic Compounds

In water at 25°C

Soluble Compounds

Exceptions

Compounds containing alkali metal ions and NH_4^+

NO_3^- , HCO_3^- , ClO_3^-

Cl^- , Br^- , I^-

Halides of Ag^+ , Hg_2^{2+} , Pb^{2+}

SO_4^{2-}

Sulfates of Ag^+ , Ca^{2+} , Sr^{2+} , Ba^{2+} , Hg^{2+} , Pb^{2+}

Insoluble Compounds

Exceptions

CO_3^{2-} , PO_4^{3-} , CrO_4^{2-} , S^{2-}

Compounds containing alkali metal ions and NH_4^+

OH^-

Compounds containing alkali metal ions and Ba^{2+}
