

Ch 11 IIW: Sec Asses 31,34,35 Rev Con 54,55,81
Sec 11.3A

obj: Use solubility rules to predict precipitates.

Precipitates

- Solid products that are a result of Double Replacement Rxns
- Precipitates are insoluble in water.
- Rules for predicting precipitates Depend on the type of salt Produced

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- 1) Alkali Salts + Ammonium Salts are Soluble.
- 2) Nitrates + Chlorates are Soluble (NO_3^{1-}), (ClO_3^{1-})
- 3) Sulfates are Soluble Except for PbSO_4 , HgSO_4 , Ag_2SO_4 , SrSO_4 , CaSO_4 , BaSO_4

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4) Chloride Salts are Soluble
Except for AgCl , HgCl_2 , PbCl_2

5) Carbonates (CO_3^{2-}), phosphates (PO_4^{3-})
Chromates (CrO_4^{2-})
Sulfides (S^{2-}) Hydroxides (OH^-)
are insoluble except for the Alkali
metals + Ammonium

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