

Solubility and Precipitation Reactions

Indicate if the following are soluble (s) or insoluble (i) in water.

Na_2CO_3 _____ $\text{Ca}(\text{NO}_2)_2$ _____ $\text{Fe}(\text{OH})_3$ _____

Rb_3PO_4 _____ Fe_2O_3 _____ $\text{Co}(\text{CH}_3\text{COO})_2$ _____

K_2S _____ $\text{Cr}_2(\text{SO}_4)_3$ _____ BaCl_2 _____

Write a molecular equation for the mixing of aqueous solutions of CaCl_2 and K_3PO_4 .

Write the ionic equation.

Write a net ionic equation.

Which are the spectator ions?