Non Sibi High School

Andover's Chem 300: Accelerated/Honors Chemistry

Chapter 18, Review Quiz 1

1

Calculate the molar solubility of lead(II) bromide ($K_{sp} = 4.0 \times 10^{-5}$). Include the solubility equilibrium reaction and K_{sp} expression in your answer.

2

The molar solubility of scandium(III) fluoride is 1.9×10^{-5} M. Calculate the value of K_{sp} for scandium(III) fluoride. Include the solubility equilibrium reaction and K_{sp} expression in your answer.

3

Predict if precipitation will occur when 14 mL of 6.5×10^{-5} M $AgNO_3$ is mixed with 56 mL of 3.5×10^{-4} M K_3PO_4. ($K_{sp} = 8.9 \times 10^{-17}$ for Ag_3PO_4)

4

A metal hydroxide with the formula $M(OH)_2$ was mixed with water and stirred until a saturated solution was created. The pH of the solution was found to be 9.88. Calculate the value of K_{sp} for the metal hydroxide.