

- Ch. 16.7-16.8: Fractional Precipitation and Common Ion Effect (Solubility)
- **Homework 16-5:** Problems pg. 724-725 # 55, 56, 57, 59, 60, 61

55 (a) **AgI**

(b) $[\text{Ag}^+] = 1.6 \times 10^{-7} \text{ M}$

(c) $\% \text{ Ag}^+ (\text{aq}) = 0.0016\% \text{ or } 1.6 \times 10^{-3}\%$

56 $2.68 < \text{pH} < 8.11$.

59 The mass of $\text{CaCO}_3 = 5.1 \times 10^{-6} \text{ g CaCO}_3$

60 (a) $s = 0.013 \text{ M}$

(b) $s = 2.2 \times 10^{-4} \text{ M}$

(c) $s = 3.3 \times 10^{-3} \text{ M}$

61 $s_{\text{AgCl}} = 8.9 \times 10^{-10} \text{ M}$.