AP Chemistry Daily Videos

7.12 Common-Ion Effect

Video #1

- 1. Why is it called the "Common-Ion" Effect?
- 2. How does Le Chatelier's Principle help you understand why a common-ion in solution decreases a substance's solubility? Use can use words and/or pictures to answer.

3. Evaluate your work and write down any errors you may have made.

The solubility product for magnesium fluoride is $K_{sp} = [Mg^{2+}][F^{-}]^2$

- (a) Write the balanced equation showing the dissolution of ${\rm MgF}_2$ (b) Calculate the solubility of MgF₂ in 2.00 L of pure water. $K_{sp} =$
 - 3.3×10^{-8}

(c) 2.52 grams of NaF is added to the saturated solution. (i) Calculate the molarity of F^- in the solution

(ii) Calculate the solubility after the addition of the NaF.