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## **Molar Solubility**

Pre-Lab Assignment
What color change will you observe at the end point of the titration?
2. A 25.0 mL sample of magnesium hydroxide is titrated with 0.005 M HCl and 2 drops of methyl orange indicator. At the end point of the titration 13.2 mL of HCl has been added.
a. How many moles of hydroxide are present in the sample?
b. What is the concentration of hydroxide, in molarity?
c. What is the molar solubility of $Mg(OH)_2$ ? (Look at the equations in the Procedure as a guide.)
d. What is the $K_{sp}$ for $Mg(OH)_2$ ?