

# Experiment 22 Report Sheet

## Molar Solubility, Common-Ion Effect

Date \_\_\_\_\_ Lab Sec. \_\_\_\_\_ Name \_\_\_\_\_ Desk No. \_\_\_\_\_

### A. Molar Solubility and Solubility Product of Calcium Hydroxide

	Trial 1	Trial 2	Trial 3
1. Volume of saturated $\text{Ca(OH)}_2$ solution (mL)	25.0	25.0	25.0
2. Concentration of standardized HCl solution (mol/L)		0.05 M	
3. Buret reading, initial (mL)	0 mL	24.96	24.96
4. Buret reading, final (mL)	24.9	24.9	24.9
5. Volume of HCl added (mL)			
6. Moles of HCl added (mol)			
7. Moles of $\text{OH}^-$ in saturated solution (mol)			
8. $[\text{OH}^-]$ , equilibrium (mol/L)			
9. $[\text{Ca}^{2+}]$ , equilibrium (mol/L)			
10. Molar solubility of $\text{Ca(OH)}_2$ (mol/L)			
11. Average molar solubility of $\text{Ca(OH)}_2$ (mol/L)			
12. $K_{sp}$ of $\text{Ca(OH)}_2$			
13. Average $K_{sp}$			Data Analysis, B
14. Standard deviation of $K_{sp}$			Data Analysis, C
15. Relative standard deviation of $K_{sp}$ (%RSD)			Data Analysis, D

\*Calculations for Trial 1.

# Experiment 22 Molar Solubility Lab Report

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## Experiment 22 Molar Solubility Lab Report:

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**Industry Reporter: Technology reports** Bureau of National Affairs (Arlington, Va.),1960      *Agrindex* ,1995

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