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## Everyday Investigations for General Chemistry

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Summary: I. Chemicals.II. Equipment, Glassware, and Laboratory Techniques.III. Reporting Data and Results.IV.

Safety.V. Experiments.Experiment 1. Density: Identifying Solids and Liquids.Experiment 2. Beer's Law, Copper Ammonium Complex.Experiment 3. Analysis of Food Dyes using Visible Spectroscopy and Paper Chromatography.Experiment 4.

Determining the Formula of a Hydrate.Experiment 5.

Quantitative Determination of P in Plant Food.Experiment 6.

Preparation of Solutions.Experiment 7. Analysis of Spinach Extract.Experiment 8. Measuring pH with Universal Indicator.Experiment 9. Extraction of Curcumin from Turmeric.Experiment 10. pH-Titration.Experiment 11.

Preparation & Acid-Base Properties of Ammonium Chloride.Experiment 12. Boyle's Law.Experiment 13. Molar Mass of a Volatile Liquid by Vapor Density.Experiment 14. Percent of H<sub>2</sub>O<sub>2</sub> by Gas Evolved.Experiment 15. Equilibrium and Le Ch'telier's Principle.Experiment 16. Calorimetry: Measuring Heat of Neutralization.Experiment 17. Heat of Solution and Hot Packs.Experiment 18. Molar Mass by Freezing Point Depression.Experiment 19. Kinetics of the Iodination of Acetone.Experiment 20. Kinetics of the Oxidation of Food Dye with Sodium Hypochlorite.Experiment 21. Redox Titration: Iodine used to Determine Ascorbic Acid.Experiment 22.

Electrochemistry.Experiment 23. Synthesis of Copper Nanoparticles.Experiment 24. Synthesis of Copper Pigments: Making Paints.Experiment 25. Synthesis of Ethyl Salicylate from

### Reviews

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