



Introduction to Organic Lab Techniques

By Pavia, Donald L.

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 Summary: PART I: INTRODUCTION TO BASIC LABORATORY TECHNIQUES. Experiment 1: Introduction to Microscale Laboratory. Experiment 2: Solubility. Experiment 3: Crystallization. Experiment 4: Extraction. Experiment 5: A Separation and Purification Scheme. Experiment 6: Chromatography. Experiment 7: Simple and Fractional Distillation. Experiment 8: Infrared Spectroscopy and Boiling Point Determination. ESSAY: Aspirin. Experiment 9: Acetylsalicylic Acid. ESSAY: Analgesics. Experiment 10: Isolation of the Active Ingredient in an Analgesic Drug. Experiment 11: Acetaminophen. ESSAY: Identification of Drugs. Experiment 12: TLC Analysis of Analgesic Drugs. ESSAY: Caffeine. Experiment 13: Isolation of Caffeine. ESSAY: Esters -- Flavors and Fragrances. Experiment 14: Isopentyl Acetate (Banana Oil). ESSAY: Terpenes and Phenylpropanoids. Experiment 15: Essential Oils: Extraction of Oil of Cloves by Steam Distillation. Essay: Stereochemical Theory of Odor. Experiment 16: Spearmint and Caraway Oil: (+)- and (-)- Carvones. Essay: The Chemistry of Vision. Experiment 17: Isolation of Chlorophyll and Carotenoid Pigments from Spinach. Essay: Ethanol and Fermentation Chemistry. Experiment 18 Ethanol from Sucrose. PART II: INTRODUCTION TO MOLECULAR MODELING. ESSAY: Molecular Modeling and Molecular Mechanics. Experiment 19: An Introduction to Molecular Modeling. ESSAY: Computational Chemistry -- Ab initio and Semiempirical Methods. Experiment 20: Computational

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