

CHEM 2425 Hazard Assessment

Experiment 4	Synthesis of Salicylic Acid from Wintergreen Oil
Extra precautions to announce	none
Additional PPE requirements	Follow textbook recommendations.
Waste disposal procedures	Dispose of liquid chemicals in the CORROSIVE NON-HALOGENATED ORGANIC waste container. Dispose of solids in the SOLID waste container.
Experiment 5	Preparation of Synthetic Banana Oil
Extra precautions to announce	Isoamyl (isopentyl) alcohol has a strong unpleasant odor that tends to induce coughing. Keep this chemical in the hood and have the students measure out the volume needed, rather than the mass.
Additional PPE requirements	Follow textbook recommendations.
Waste disposal procedures	Dispose of liquid chemicals in the CORROSIVE NON-HALOGENATED ORGANIC waste container. Dispose of solids in the SOLID waste container.
Experiment 21	Dehydration of Methylcyclohexanols
Extra precautions to announce	none
Additional PPE requirements	Follow textbook recommendations.
Waste disposal procedures	Dispose of liquid chemicals in the CORROSIVE NON-HALOGENATED ORGANIC waste container. Dispose of solids in the SOLID waste container.
Experiment 28	The Reaction of Butanols with HBr
Extra precautions to announce	The gas trap is required in this experiment at all campuses.
Additional PPE requirements	Follow textbook recommendations.
Waste disposal procedures	Dispose of liquid chemicals in the CORROSIVE HALOGENATED ORGANIC waste container. Dispose of solids in the SOLID waste container.

Experiment 29	Borohydride Reduction of Vanillin to Vanillyl Alcohol
Extra precautions to announce	none
Additional PPE requirements	Follow textbook recommendations.
Waste disposal procedures	Dispose of liquid chemicals in the CORROSIVE HALOGENATED ORGANIC waste container. Dispose of solids in the SOLID waste container.

Experiment: Minilab 22	The Nylon Rope Trick
Extra precautions to announce	Dispense the sebacyl chloride in the hood. Be sure to warn students to clean up spills of the hexanediamine as soon as they occur.
Additional PPE requirements	Follow textbook recommendations.
Waste disposal procedures	(1) Dispose of the nylon in the SOLID waste container. (2) Rinse and recycle cans. (3) Dispose of liquid chemicals in the CORROSIVE HALOGENATED ORGANIC waste container.

Experiment: Minilab 25	Oxidation of Alcohols by Potassium Permanganate
Extra precautions to announce	none
Additional PPE requirements	Follow textbook recommendations.
Waste disposal procedures	Dispose of all chemicals in the CORROSIVE HALOGENATED ORGANIC waste container.

Experiment: Minilab 34	Preparation of Aldol Condensation Products
Extra precautions to announce	A hot water bath, set between 70-80 °C in the hood is required. Place a test tube rack and about 4 inches of water in the bath. Have the students add a boiling chip to minimize the possibility of bumping.
Additional PPE requirements	Follow textbook recommendations.
Waste disposal procedures	Dispose of liquid chemicals in the CORROSIVE NON-HALOGENATED ORGANIC waste container. Dispose of solids in the SOLID waste container.

accessed: 12:53 PM 5/19/08
edited: 8/01/07
effective: fall 2007

Experiment: Minilab 36	Acid-Base Strengths of Organic Compounds
Extra precautions to announce	Benzyltrimethylammonium hydroxide smells quite bad. Keep this chemical in the hood. Ensure that any experiment performed by a student remains in the hood.
Additional PPE requirements	Follow textbook recommendations.
Waste disposal procedures	Dispose of all chemicals in the CORROSIVE NON-HALOGENATED ORGANIC waste container.

Experiment: Handout	Grignard Synthesis of Benzoic Acid
Extra precautions to announce	No flames at all once chemicals are opened anywhere in the room.
Additional PPE requirements	Gloves are recommended when handling bromobenzene.
Waste disposal procedures	Dispose of liquid chemicals in the CORROSIVE HALOGENATED ORGANIC waste container. Dispose of solids in the SOLID waste container.