

Chemical/Element Name	Per Student	Per Class (20)	Location
Diethyl Ether, anhydrous, fresh	40 mL	1 Liter	Flammable Fridge (first room)
Diethyl Ether, not as fresh	25 mL	675 mL	Flammable Fridge (first room)
Bromobenzene, fresh	9 mL	200 mL	Flammable cabinet (middle room)
Calcium Chloride pellets, anhydrous, solid	10 g	200 g	Inorganic solids (shelves)
Iodine, solid	1.0 g	20 g	Hazards (cabinets by deep storage)
Magnesium Turnings, fresh	2 g	40 g	Hazards (cabinets by deep storage)
Methyl Benzoate	5 mL	100 mL	Flammable cabinet (last room)
Benzophenone	6.75 g	130 g	Organic solids (shelves)
1M Sulfuric acid	90 mL	2.2 Liters	Acid Cabinet 1
Ligroin / Petroleum Ether (bp 60-80)	25 mL	600 mL	Flammable cabinet (middle room)
Sodium Chloride, Saturated	100 mL	2.0 Liters	Inorganic liquids (shelves)

Note: Alternate every semester between methyl benzoate and benzophenone.

Other Items	Amount / Quantity	Location
Ice	Day 1 and 2	Next to fridge
Cotton balls	Determined by class	Ochem bookshelf #1
Pasteur Pipettes	Determined by class	Bookshelf in front of hallway to 227
Large mortar and pestil	Determined by class	Kitchen /food items bookshelf

Waste

- Organic solids
- Organic Non-halogenated liquids
- Organic halogenated liquids
- Acid/base + baking soda

Note: Eliminate drying tubes, organic contamination OR try new drying tubes, and reserve for this exp.

Solution Preparation

1M Sulfuric acid

$$\frac{1M}{18.4M} \times 2200 \text{ ml} = 120 \text{ ml } H_2SO_4 + 2080 \text{ ml } H_2O$$

Saturated Sodium Chloride

$$375 \text{ g NaCl per } 1000 \text{ mL of } H_2O$$