

| Chemical / Substance Name                                  | Per Student | Per Class (20) | Location                        |
|--|-------------|----------------|---------------------------------|
| Sucrose, solid   | 200 g       | 4000 g         | Inorganic solids shelf          |
| Disodium hydrogen phosphate<br>→ Sodium phosphate, dibasic | 0.6 g       | 12 g           | Inorganic solids shelf          |
| Calcium Chloride pellets, anhydrous, solid                 | 7.5 g       | 150 g          | Inorganic solids shelf          |
| Yeast, fresh   | 16 g        | 320 g          | Fridge                          |
| Ethyl acetoacetate   | 6 g         | 120 g          | Flammable cabinet (middle room) |
| Sodium Chloride, solid                                     | 240 g       | 4800 g         | Inorganic solids shelf          |
| Diethyl Ether  | 400 mL      | 8000 mL        | Flammable Fridge (first room)   |
| Calcium Hydroxide, saturated solution                      | 25 mL       | 500 mL         | Inorganic liquids shelf         |
| Methanol / Methyl Alcohol                                  | 6 mL        | 120 mL         | Flammable cabinet (last room)   |
| Ethanol /Ethyl alcohol                                     | 12.5 mL     | 250 Liters     | Inorganic liquids (shelves)     |

| Other Items                     | Amount / Quantity        | Location                      |
|---------------------------------|--------------------------|-------------------------------|
| Sand                            | Determined by class size | Ochem lab                     |
| Polarimeter (part 2)            | Determined by class size | Instrument room               |
| Diatomaceous earth              | 1 lb                     |                               |
| 500 mL Erlenmeyers              | Determined by class size | HS 227                        |
| 500 mL filter flasks            | Determined by class size | HS 227                        |
| Box #7 with closer stoppers     | Determined by class size | Ochem bookshelves             |
| Large glass and plastic funnels | Determined by class size | Ochem bookshelves / stockroom |

## Waste

- Organic Non-halogenated liquids

**Important!** Set oven/incubator to 35-40 degrees + 4 grey tubs to catch overflows.

## Solution Preparation

Saturated Calcium Hydroxide

$1.5 \text{ g Ca(OH)}_2 \text{ per } 1000 \text{ mL of H}_2\text{O}$

Or

$0.10 - 0.30 \text{ g Ca(OH)}_2 \text{ per } 30 \text{ mL of H}_2\text{O}$