

## Experiment 01 – Distillation

### **Cleanup:**

At the end of each lab you should completely clean your hood and bench work areas. Your TA will check them before signing your notebook.

Put all equipment away.

Clean your bench top.

Thoroughly clean your hood space, including any spilled sand.

Failure to clean your work areas will result in points being deducted from your lab technique grade.

### **Distillation – The Experiment do's and don'ts:**

*First: turn on your sand bath to setting of 40.*

Demonstration setups for simple and fractional distillation, and of good and bad connections, are on the supply bench.

Never throw away a round bottomed flask – they cost \$9 each. If your flask is contaminated, please give it to your TA and s/he will replace it. We can clean them with a special solution.

A demonstration of the fractionating column packing (correctly and incorrectly done) is on the supply bench.

Save your fractional distillation column, with the copper mesh inside and the copper wire for use next week. Minimize waste.

Empty your unknown vial into the liquid waste bottle. Rinse the vial with a very small amount of acetone and leave it uncapped in the waste hood.

### **Waste:**

Liquid waste bottle: all liquid wastes

Unused or excess copper wire, copper sponge and aluminum foil can be put into the regular trash – they are not hazardous waste.