WARNING NOTICE: The experiments described in these materials are potentially hazardous and require a high level ofsafety training, special facilities and equipment, and supervision by appropriate individuals. You bear the sole responsibility, liability, and risk for the implementation of such safety procedures and measures. MIT shall have no responsibility, liability, or risk for the content or implementation of any of the material presented. Legal Notices

7.2. GC Sample Preparation Guide

Overview:

This handout describes how to prepare a standard gas chromatograph sample. It involves preparing a dilute solution of a somewhat volatile compound and using the GC to assess its purity.

Reference:

Zubrick page 252

Liquid Sample Preparation:

1) Insert the tip of a Pasteur pipet into the liquid. Capillary action will draw approximately 10 mg of the liquid into the pipet.

- 2) Rinse this into a vial using 1 mL of a volatile solvent ether, ethyl acetate, pentane, etc.
- **3**) Insert the tip of a pipet into this liquid.
- 4) Rinse this through a pipet filter into another vial using 1 mL of the same solvent.
- 5) Your sample is ready to be injected!

Solid Sample Preparation:

1) Dissolve approximately 10 mg of the compound in 1 mL of one of the volatile solvents listed above.

2) Perform steps 3–5 above