Name: _____

Locker Number: _____

Experiment 52

PREPARATION OF A C-4 OR C-5 ACETATE ESTER

Pre-Lab Exercise

1. Draw the structure of the ester which you will be preparing in this experiment. Indicate its molecular weight.

2. Assuming that you will begin with exactly 5.0 mL of C-4 or C-5 alcohol, calculate the *theoretical yield* of ester expected in this experiment. Be sure to show your mathematical set-up.

3. What specific absorption bands in the infrared spectrum should you be looking for in order to confirm that your product is an ester? Identify by type of absorption and approximate frequency.

4. What is a **pheromone**?

5. What should you do if you get glacial acetic acid or concentrated sulfuric acid on your skin?