#### EXPERIMENT XI

#### ESTERIFICATION - The Preparation of Methyl Benzoate

# REFERENCE: Introduction to Organic Laboratory Techniques. 3rd Ed., Pavia, Lampman and Kriz Vacuum Distillation, pp. 558-562, 590-592

#### OBJECTIVES: The student should be able to:

- Write up a step by step procedure for the reaction using information on the handout sheet, laboratory manuals and <u>The Handbook of</u> <u>Chemistry and Physics.</u>
- Extract the reaction product by use of the properties of polarity and acidity.
- Recover the unreacted benzoic acid.
- 4. Distill the product by vacuum distillation.
- Calculate the amounts of reactants given the grams of product and the expected percent yield.
- Identify the final product from physical properties, IR and NMR spectra.

main reaction equation

#### REAGENTS:

Reactants: Benzoic acid; methanol Catalyst: conc. H<sub>2</sub>SO<sub>4</sub>, 4 ml

Calculate the amounts of the reactants required to produce 21.8 grams of methyl benzoate assuming a 80% yield.

Use this theoretical amount of benzoic acid.

Use a 518% excess of methanol.

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