

Name: _____

Esterification

DATA SHEET

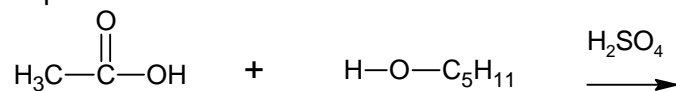
I. Preparation of isoamyl acetate

Odor: Isoamyl alcohol --

Acetic acid --

Isoamyl acetate ester --

Equation:



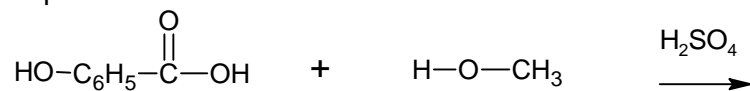
II. Preparation of methyl salicylate.

Odor: Methanol --

Salicylic acid --

Methyl salicylate ester --

Equation:



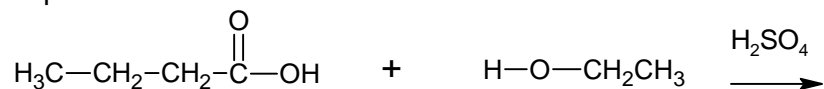
III. Preparation of ethyl butyrate.

Odor: Ethanol --

Butyric acid --

Ethyl butyrate ester --

Equation:



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REVIEW QUESTIONS

1. Write the equation for the formation of an acid catalyzed condensation reaction.
2. Describe a safe method of smelling chemicals.
3. Comment on the odors of the esters formed relative to the starting materials.
4. Why are coffee pots used to generate a hot water bath instead of an open flame and a beaker of water when working with alcohols?
5. What is the purpose of the H_2SO_4 in each reaction?