

## Exercise 1: Esterification

Test Tube	Reaction Mixture	Aroma observed before and after reaction	Structure and IUPAC name of product formed
A	$\text{CH}_3\text{COOH}$ + octanol + $\text{H}_2\text{SO}_4$		
B	$\text{CH}_3\text{COOH}$ + pentanol + $\text{H}_2\text{SO}_4$		
C	salicylic acid + methanol + $\text{H}_2\text{SO}_4$		

### Questions:

- Write a balanced chemical equation for each reaction mixture showing chemical structures.
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  - 
  -
- If you mixed 10 drops of ethanol and 10 drops of  $\text{CH}_3\text{COOH}$ , calculate the theoretical mass in grams of the ester formed in the reaction. Show all calculation steps. Assume that 20 drops = 1 mL ; density of ethanol = 0.90 g/mL;  $[\text{CH}_3\text{COOH}] = 17.4 \text{ M}$ .

# Esterification Experiment Grade 1

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## **Esterification Experiment Grade 1:**

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