

6.3: Esters Report Sheets

Name (first and last):

Lab Partner (first and last):

Date of experiment:

Data Table: (6 points)

Tube#	Alcohol	Acid	Common Name	IUPAC Name	Describe the Fragrance
1	Isopentyl (isoamyl)	acetic			
2	Methanol	acetic			
3	Methanol	salicylic			
4	Ethanol	salicylic			

Questions for analysis: (14 points total)

1. For each reaction you completed in this experiment, draw a reaction with full structures of all reactants and products. Use the reaction show in the introduction as a guide. (1 point for each reaction)

a. Test tube 1:

b. Test tube 2:

c. Test tube 3:

d. Test tube 4:

2. What role does sulfuric acid play in the reaction for this in experiment? (1 point)

3. Name two commercial products that contain oil of wintergreen. (2 point)

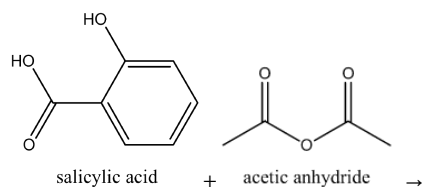
(You can look at the ingredient list on your household products.)

4. Explain why the esters you made in your experiment could not be used as flavoring agents. (1 point)

5. What would be the IUPAC name of the ester produced from isopentyl alcohol and isopentanoic acid? Draw the ester below.(2 points)

6. Raspberry oil can be prepared from the reaction of formic acid with 2-methyl-1-propanol. What is the IUPAC name for the ester formed from these 2 compounds and draw the product? (2 points)

7. When salicylic acid is reacted with acetic anhydride the products are aspirin and acetic acid. Name and draw the structures of the products. (2 points)



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