

## CHAPTER 10.8: ORGANIC ACIDS AND ESTERS

### PROPERTIES OF AQUEOUS ETHANOIC ACID (choose one correct answer in the bracket!)

- Methanoic acid has a (higher / lower) melting point and boiling point than ethanoic acid. Thus, the higher the number of carbon atom in carboxylic acid, melting point and boiling point (increase / decrease)
- Methanoic acid and ethanoic acid are (solid / liquid / gas) at room temperature. Ethanoic acid will become (solid / liquid / gas) if the temperature falls only slightly.

### ETHANOIC ACID AS A WEAK ACID (choose one correct answer in the bracket!)

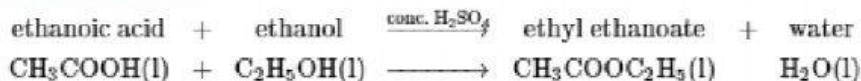
- When dissolves in water, ethanoic acid dissociates (completely / partially). This is why ethanoic acid is one of weak acids.
- The reaction will be: (complete the reaction along with the name of the compound!)



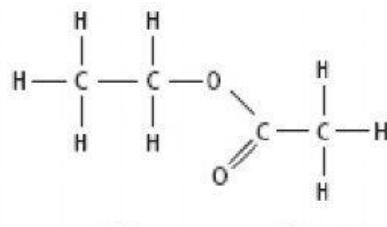
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A REACTION OF ETHANOIC ACID WITH ETHANOL IN THE PRESENCE OF CATALYST TO GIVE AN ESTER (please complete the blank sentences!)

- Esterification is a reaction between \_\_\_\_\_ and \_\_\_\_\_ to produce \_\_\_\_\_.
- Ethanoic acid reacts with ethanol, in the presence of a few drops of \_\_\_\_\_ to produce ethyl ethanoate.
- The reaction is:



- Esters have strong and pleasant smells. Many of them occur naturally. They are used as food flavorings and perfumes.



ethanol ethanoate LIVEWORKSHEETS