

Lab 10: Carboxylic Acids

Pre-lab Questions

- The first step in the synthesis of a carboxylic acid is the oxidation of an alcohol. Write the balanced chemical equation for the oxidation of ethanol to acetic acid.
- The second step in the synthesis of a carboxylic acid is the esterification of the acid with an alcohol. Write the balanced chemical equation for the esterification of acetic acid with ethanol.
- The third step in the synthesis of a carboxylic acid is the hydrolysis of the ester. Write the balanced chemical equation for the hydrolysis of ethyl acetate to acetic acid and ethanol.
- The fourth step in the synthesis of a carboxylic acid is the purification of the acid. Write the balanced chemical equation for the purification of acetic acid by distillation.

Procedure

- Preparation of Acetic Acid: CH_3COOH
 Reagents: CH_3COCl , H_2O , NaOH

1. $\text{CH}_3\text{COCl} + \text{H}_2\text{O} \rightarrow \text{CH}_3\text{COOH} + \text{HCl}$

2. $\text{CH}_3\text{COOH} + \text{H}_2\text{O} \rightarrow \text{CH}_3\text{COOH} + \text{H}_2\text{O}$
Reaction of acetic acid with water

3. $\text{CH}_3\text{COOH} + \text{H}_2\text{O} \rightarrow \text{CH}_3\text{COOH} + \text{H}_2\text{O}$

4. $\text{CH}_3\text{COOH} + \text{H}_2\text{O} \rightarrow \text{CH}_3\text{COOH} + \text{H}_2\text{O}$

5. $\text{CH}_3\text{COOH} + \text{H}_2\text{O} \rightarrow \text{CH}_3\text{COOH} + \text{H}_2\text{O}$

6. $\text{CH}_3\text{COOH} + \text{H}_2\text{O} \rightarrow \text{CH}_3\text{COOH} + \text{H}_2\text{O}$

7. $\text{CH}_3\text{COOH} + \text{H}_2\text{O} \rightarrow \text{CH}_3\text{COOH} + \text{H}_2\text{O}$
 8. $\text{CH}_3\text{COOH} + \text{H}_2\text{O} \rightarrow \text{CH}_3\text{COOH} + \text{H}_2\text{O}$
 9. $\text{CH}_3\text{COOH} + \text{H}_2\text{O} \rightarrow \text{CH}_3\text{COOH} + \text{H}_2\text{O}$
 10. $\text{CH}_3\text{COOH} + \text{H}_2\text{O} \rightarrow \text{CH}_3\text{COOH} + \text{H}_2\text{O}$

Acidity Of Beverages Pre Lab Answers

Clifford Lane



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