Chapter Summary Worksheet

Chapter 8 Carboxylic acids and their derivatives

Print out and complete this worksheet to generate a summary for Chapter 8.

1 The name of $(CH_3)_2CHCOOC_2H_5$ is:

- ☐ **A** ethyl butanoate
- ☐ **B** ethyl 2-methylpropanoate
- ☐ **C** 1-propyl ethanoate
- ☐ **D** 2-propyl ethanoate

2 Consider the reaction:

$$CH_3OH + CH_3COOH \rightleftharpoons CH_3COOCH_3 + H_2O$$

Which does **not** have intermolecular hydrogen bonds?

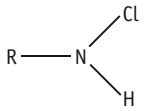
- ☐ **A** CH_3OH
- ☐ **B** CH_3COOH
- ☐ **C** CH_3COOCH_3
- ☐ **D** H_2O

3 Which will **not** react with ethanoic acid?

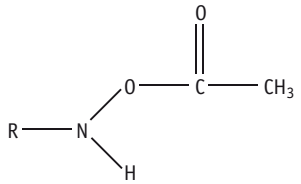
- ☐ **A** CH_3OH
- ☐ **B** H_2 with a platinum catalyst
- ☐ **C** Zn
- ☐ **D** PCl_5

4 Ethanoyl chloride reacts with an amine RNH_2. The formula of the organic product is:

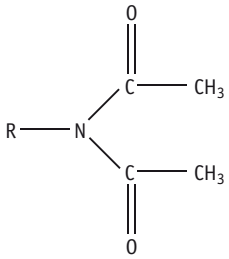
☐ **A**



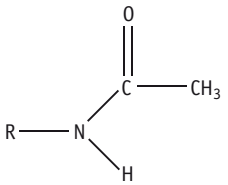
☐ **B**



☐ **C**



☐ **D**



5 The number of esters with molecular formula $C_4H_8O_2$ is:

- ☐ **A** 2
- ☐ **B** 3
- ☐ **C** 4
- ☐ **D** 5

6 Which does **not** form a polymer?

- ☐ **A** 1,6-hexanedioic acid and methanol
- ☐ **B** 1,6-hexanedioic acid and 1,3-propandiol
- ☐ **C** 3-hydroxybutanoic acid
- ☐ **D** but-2-ene

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