Carboxylic acids and derivatives – A2 2022 Chemistry P2&P3

1. June/2022/Paper_7405/2/No.7

0 7 This question is about esters.

Figure 4 shows an incomplete mechanism for the reaction of an ester with aqueous sodium hydroxide.

Figure 4

0 7. 1 Add three curly arrows to complete the mechanism in Figure 4.

[3 marks]

0 7. 2 Name the type of reaction shown in Figure 4.

[1 mark]

0 7. 3 Deduce the role of the CH₃O⁻ ion in step 3 shown in **Figure 4**.

[1 mark]

0 7. 4 A triester in vegetable oil reacts with sodium hydroxide in a similar way.

Give a use for a product of this reaction.

[1 mark]

2. June/2022/Paper_7405/3/No.25

Which compound is an isomer of ethyl ethanoate?

[1 mark

A butyl methanoate	0
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