

AQA – Alcohols – AS Chemistry P2

1. No.4

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This question is about pentan-2-ol and pent-1-ene.

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The boiling point of pentan-2-ol is 119 °C

The boiling point of pent-1-ene is 30 °C

Explain why pentan-2-ol has a higher boiling point than pent-1-ene.

[3 marks]

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Pent-1-ene is formed by the elimination of water from pentan-2-ol.

State the reagent and condition for this reaction.

Outline the mechanism for this reaction.

[5 marks]

Reagent _____

Condition _____

Outline of mechanism

2. No.18

Which statement is correct about the production and use of ethanol as a biofuel?

[1 mark]

- A** Biofuel ethanol is produced by the fermentation of glucose in the presence of yeast and air. ☐
- B** Biofuel ethanol is purified by fractional distillation. ☐
- C** No carbon dioxide is released when biofuel ethanol is burned. ☐
- D** Biofuel ethanol burns with a cleaner flame than ethanol made by hydration of ethene. ☐