

Alcohols & Carboxylic Acids

Question Paper 2

Level	Edexcel
Subject	Chemistry
Exam Board	GCSE(9-1)
Topic	Separate Chemistry 2
Sub Topic	Alcohols & Carboxylic Acids
Booklet	Question Paper 2

Time Allowed: 14 minutes

Score: /11

Percentage: /100

- 1 (a) A student carried out an experiment to prove that candle wax, a hydrocarbon, produces carbon dioxide and water vapour when it burns.

The equipment used is shown in Figure 11.

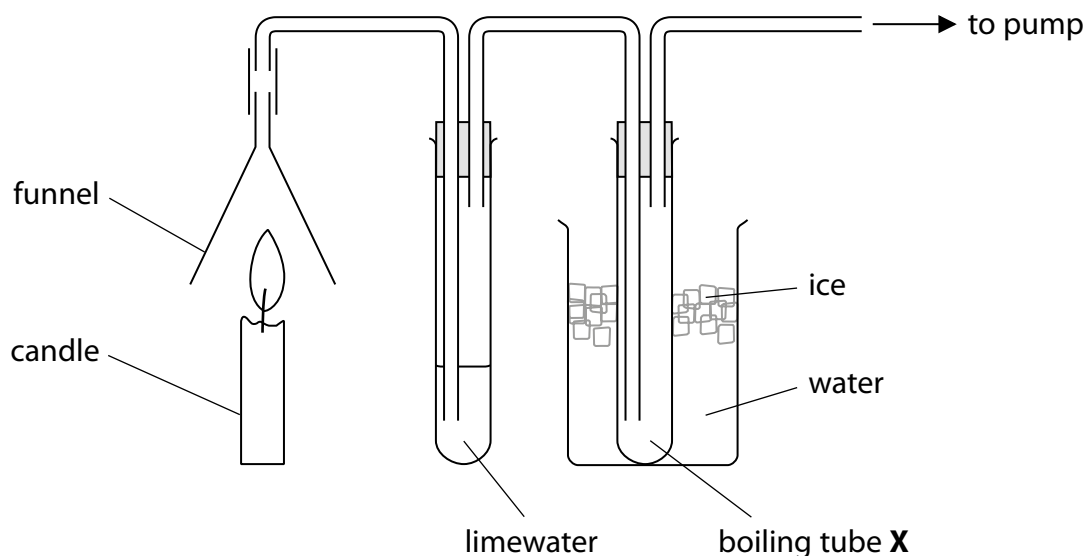


Figure 11

The gas produced from the burning candle is drawn through the apparatus. The limewater turned milky showing that carbon dioxide had been formed.

A small amount of a colourless liquid condensed in boiling tube X. The student claimed that this proved that burning candle wax produced water. The teacher said the apparatus had been set up incorrectly and therefore this conclusion about water was not valid.

Explain how the student could modify the equipment to prove that water is produced by burning candle wax.

(2)

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(c) An alcohol **A**, with molecular formula C_2H_5OH is oxidised to a compound **B** with molecular formula $C_2H_4O_2$.

(i) Compound **B** is not an alcohol and is a member of another homologous series.

State the name of this homologous series.

(1)

(ii) Draw the structure of a molecule of compound **A** and a molecule of compound **B**, showing all covalent bonds.

(2)

Compound **A**

Compound **B**

(Total for Question 1 = 11 marks)