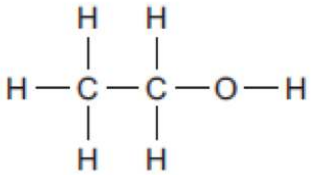
0 1 This question is about ethanol.

Figure 1 shows the displayed structure of ethanol.

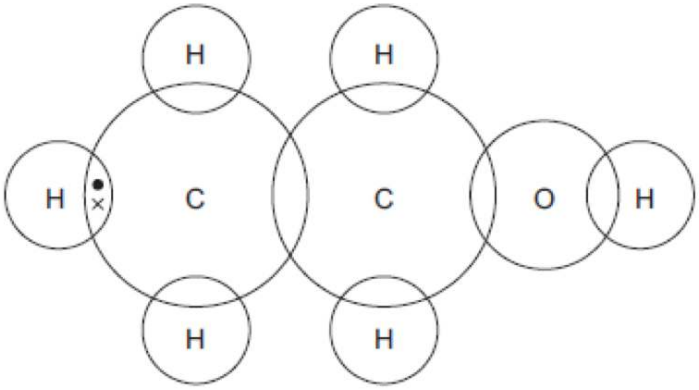
Figure 1



0 1 . 1 Complete the dot and cross diagram in **Figure 2** to show the bonding in ethanol. Show the outer shell electrons only.

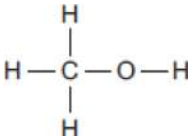
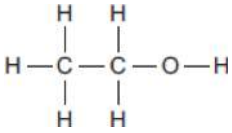
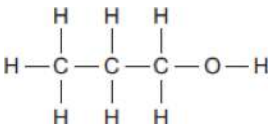
[2 marks]

Figure 2



0 2 The names, structures and boiling points of ethanol and two other alcohols are shown in **Table 1**.

Table 1

Name	**Methanol**	**Ethanol**	**Propanol**
Structure			
Boiling point in °C	65	78	97

0 2 . 1 Use your knowledge of structure and bonding to suggest why the boiling points increase as the number of carbon atoms increases.

[3 marks]

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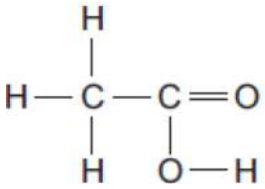
.....

.....

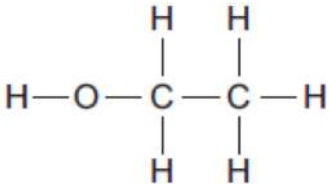
.....

0 3 The diagrams represent two compounds, **A** and **B**.

Compound A



Compound B



Compound **B** is an alcohol.

0 3 . 1 Name compound **B**.

[1 mark]

.....

Use the correct answer from the box to complete the sentence.

burned	**decomposed**	**oxidised**

0 3 . 2 To form compound **A**,

compound **B** is .....

[1 mark]

(Total 7 marks)

End