

0	1
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The molecular formulae for four organic compounds, A, B, C and D are shown below.

A	B	C	D
CH ₄	C ₂ H ₆	C ₂ H ₄	C ₃ H ₈

Compounds in the same homologous series have the same general formula.

0	1	.	1
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Name the homologous series to which compound C belongs.

[1 mark]

.....

0	1	.	2
---	---	---	---

What is the general formula of this homologous series?

[1 mark]

.....

0	1	.	3
---	---	---	---

State which of the compounds A, C or D, are members of the same homologous series as B.

[1 mark]

.....

0	2		
0	2	.	1

Ethene reacts with steam to form ethanol.

Write the balanced symbol equation for this reaction.

[2 marks]

.....

0	2	.	2
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What type of reaction is this?

[1 mark]

.....

0	3
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A test can be done with bromine water to determine the presence of polyunsaturated fats in oil.

0	3	.	1
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Describe the test and how it shows the presence of polyunsaturated fat.

[2 marks]

.....

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0	3	.	2
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What is the difference, in terms of the molecules, between saturated and unsaturated fats?

[2 marks]

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It is possible to make olive oil into a solid at room temperature by reducing the percentage of unsaturated fat in it.

0	3	.	3
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Describe how the percentage of unsaturated fat in olive oil is reduced.

[3 marks]

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(Total 13 marks)

End