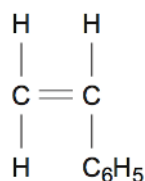


0	1
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The diagram shows the structural formula for styrene. Styrene is a monomer that can be made into a polymer.



0	1	.	1
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Give evidence from the diagram that shows styrene is unsaturated.

[1 mark]

.....  
 .....

0	1	.	2
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Complete the diagram to show the product in the equation.

[2 marks]



Styrene is produced from cracking long chain hydrocarbons. The products of cracking include alkanes and unsaturated hydrocarbons called alkenes.

Alkenes can be made into polymers.

0	1	.	3
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What is the general formula for an alkene molecule?

[1 mark]

.....  
 .....

One example of a polymer is polythene. Polythene is made into useful objects including plastic bags.

Disposal of objects made from polystyrene can cause environmental problems.

0	1	.	4
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Explain why.

[3 marks]

.....  
 .....

(Total 7 marks)

End