



1 Complete this table with the names and structures of some hydrocarbons.

Displayed formula	$\begin{array}{cccc} & \text{H} & \text{H} & \text{H} & \text{H} \\ & & & & \\ \text{H} & - \text{C} & - \text{C} & - \text{C} & - \text{C} - \text{H} \\ & & & & \\ & \text{H} & \text{H} & \text{H} & \text{H} \end{array}$	$\begin{array}{cc} \text{H} & \text{H} \\ & \\ \text{C} & = \text{C} \\ & \\ \text{H} & \text{H} \end{array}$	
Name			propene

2 Define the following terms.

a hydrocarbon

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b unsaturated

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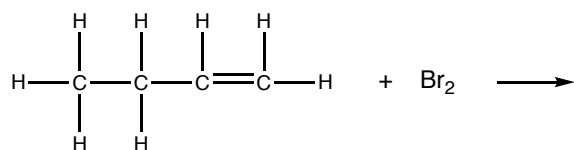
3 Octane is an alkane containing 8 carbon atoms. Give its molecular formula.

4 Butene reacts with bromine water.

a Describe what you would see in this reaction.

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b Complete the equation for this reaction.



c Butene can be formed by the cracking of tetradecane (C₁₄H₃₀). Describe how this cracking is done and write a balanced equation for this cracking of tetradecane to form butene and one alkane.

how cracking is done

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equation