



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

Displayed formula			
Name	butane	ethene	propene

2 Define the following terms.

a hydrocarbon **compound containing hydrogen and carbon only**

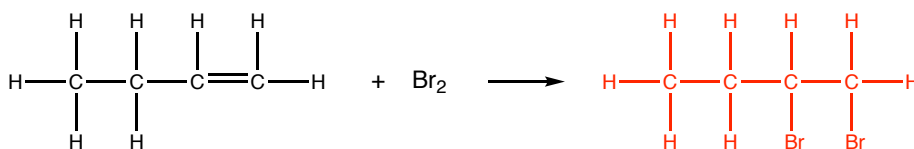
b unsaturated **contains double bond(s)**

3 Octane is an alkane containing 8 carbon atoms. Give its molecular formula. **C₈H₁₈**

4 Butene reacts with bromine water.

a Describe what you would see in this reaction. **goes from yellow-orange to colourless**

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 **vaporise and pass over hot catalyst OR mix with steam at high temperature**

equation **C₁₄H₃₀ → C₄H₈ + C₁₀H₂₂**