

- 1 Crude oil is a mixture of mainly alkanes. Alkanes are a group of chemicals which contain carbon and hydrogen atoms, the smallest of which is methane.

Describe how a mixture of alkanes can be separated using fractional distillation.

[3 marks]

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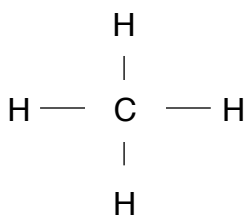
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- 1 (a) (i) The alkane methane has the following structural formula.



Draw the structural formula of propane in the box above.

[2 marks]

- 1 (a) (ii) Alkanes are described as consisting of **saturated hydrocarbon molecules**.

What is the meaning of **saturated hydrocarbon molecules**?

[2 marks]

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(Total 7 marks)

End

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