

AQA - Carbon compounds as fuel and feedstock – GCSE Chemistry Paper 21. **June/2021/Paper_2F/No.7**

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Crude oil is a resource found in rocks.

Most of the compounds in crude oil are hydrocarbons.

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Complete the sentence.

[1 mark]

Crude oil is formed by the decomposition of _____.

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Alkanes are hydrocarbons.

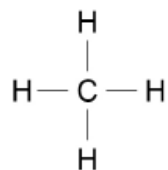
Give the name of the alkane molecule that has three carbon atoms.

[1 mark]

0 7 . 3 Figure 7 shows two alkane molecules.

Figure 7

Methane



Hexane

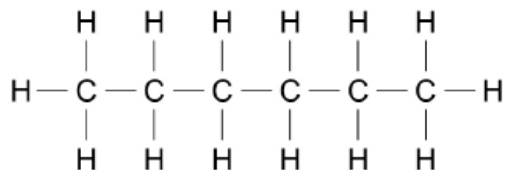


Table 4 shows the melting points and boiling points of methane and hexane.

Table 4

	Melting point in °C	Boiling point in °C
Methane	-183	-162
Hexane	-95	69

Compare the structure and properties of methane and hexane.

[6 marks]

Hydrocarbons are cracked to produce more useful alkanes and alkenes.

0 7 . 4 Decane ($C_{10}H_{22}$) is cracked to produce **two** products.

Complete the equation for the reaction.

[1 mark]



0 7 . 5 C_2H_4 is an alkene.

What is the test for alkenes?

Give the result of the test if an alkene is present.

[2 marks]

Test _____

Result _____
