

AQA - Synthetic and naturally occurring polymers – GCSE Combine Science Chemistry

1. [Jun/2019/Paper_8464/2H/No.7.0-7.4](#)

This question is about hydrocarbons and crude oil.

Hydrocarbon fuels are produced from crude oil.

Describe how crude oil is separated into fractions.

[4 marks]

Butane is a hydrocarbon.

Two equations for the combustion of butane are:

- $2\text{C}_4\text{H}_{10} + 13\text{O}_2 \rightarrow 8\text{CO}_2 + 10\text{H}_2\text{O}$
- $2\text{C}_4\text{H}_{10} + 5\text{O}_2 \rightarrow 8\text{C} + 10\text{H}_2\text{O}$

Why are different products formed?

[1 mark]

One other product of the combustion of butane is carbon monoxide.

Balance the equation.

[1 mark]



