

Chemistry - Key Stage 4

Organic Chemistry

Uses of hydrocarbons

Worksheet

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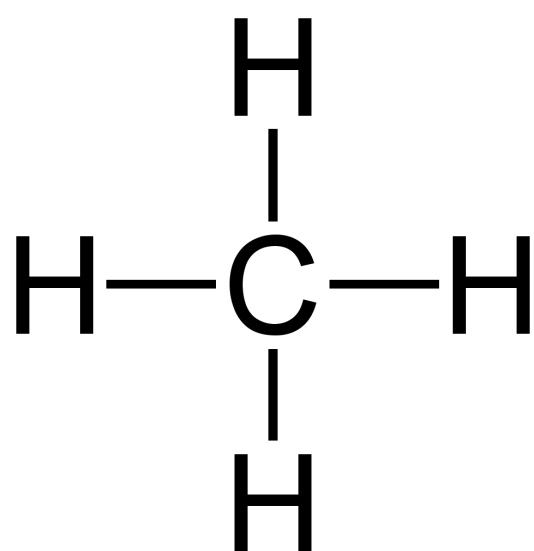


Recap

1. Name, draw and write the molecular formula for the first 4 alkanes in the homologous series.



Methane



[Wikimedia Commons] -
[Methan Lewis] -
Methane-2D-square

2. Which fraction from crude oil has the highest boiling point and explain why.

3. Which fraction from crude oil has the lowest boiling point and explain why.

_____ has the highest/lowest boiling point. This is because there are _____ *i* _____ **forces** of attraction **between** _____, and so _____ **energy** is required to break these _____ *i* _____ forces of attraction.



Viscosity

If something is very viscous, it will be very _____ and not very r_____. For example, b_____.

If something is not very viscous, it won't be very _____ and it will be very r_____. For example, p

Short-chain hydrocarbons are...

Long-chain hydrocarbons are...



Flammability

Flammability describes how easy it is for something to...

Short-chain hydrocarbons are _____ flammable than long-chain hydrocarbons which means they are more useful to us as f_____.



1. A hydrocarbon undergoes an incomplete combustion reaction. Write the word equation for this.
2. Propane reacts with oxygen in a complete combustion reaction. How would this look as a symbol equation?
3. Write a balanced symbol equation for the reaction between ethane and oxygen in a complete combustion reaction.

