

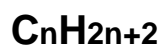
GCSE Chemistry B (Twenty First Century Science)
J258/02 Depth in chemistry (Foundation Tier)

Question Set 25

1

Crude oil is a mixture of mainly alkanes.

All alkanes have this general formula:



(a) Explain how this formula shows that alkanes are **hydrocarbons**. [2]

(b) Crude oil also contains a small amount of other molecules that are **not** alkanes. The table shows the formulae of three molecules in crude oil.

Formula of molecule
C_8H_{18}
C_3H_8S
C_6H_{12}

Put a (ring) around the correct answer to show whether each molecule **is** or **is not** an alkane.

Explain your answers.

Use the general formula for alkanes to help you.

C_8H_{18} **is** / **is not** an alkane because....

C_3H_8S **is** / **is not** an alkane because ...

C_6H_{12} **is** / **is not** an alkane because

[3]

Total Marks for Question Set 25: 5

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