

Crude oil hydrocarbons and alkanes

Crude oil hydrocarbons & alkanes Information: Highlight key words in the text below

Crude oil is a fossil fuel made from the remains of ancient plants and animals that lived millions of years ago. It is a mixture of many different substances called **hydrocarbons**, which are compounds made only of hydrogen and carbon atoms. One important group of hydrocarbons found in crude oil is called **alkanes**. Alkanes are saturated hydrocarbons, meaning they contain only single bonds between carbon atoms. They are useful as fuels because they release energy when they burn.

Answer the questions below

What are hydrocarbons?

What type of hydrocarbons are alkanes?

Why are alkanes useful?

ALKANES
SATURATED HYDROCARBONS

GENERAL FORMULA:
 C_nH_{2n+2}

STRUCTURE: ETHANE (C_2H_6)

- SINGLE C-C BONDS -
- ONLY C & H ATOMS -

METHANE CH_4 PROPANE C_3H_8 BUTANE C_4H_{10}

PROPERTIES OF ALKANES

- NON-POLAR
- INSOLUBLE IN WATER
- LOW REACTIVITY
- BURN IN AIR
- FLAMMABLE

ALKANE SERIES:
HOMOLOGOUS SERIES

NAMES: _____

1 2 3 4

METHANE ETHANE PROPANE BUTANE

Short Answers

Summary video

QR codes for Short Answers and Summary video.