

Crude oil

Unscramble the phrases in the table to make the correct definitions for the key terms listed in column A (phrases can be used once, more than once, or not at all). Then write out the definitions in full, in the spaces provided below the table.

| A | B | C | D | E |
|-------------------------|---------------------------------------|-----------------------------|-------------------------------|--|
| A saturated hydrocarbon | is a compound that | the general formula | C_nH_{2n+2} , | complete polymer chain. |
| An alkane | is a small part of a polymer which | can react with | the carbon atoms, | such as an alkane. |
| A hydrocarbon | is a series of organic compounds with | made by | joining together | such as methane, ethane, propane and butane. |
| A monomer | is a mixture of hydrocarbons with | similar boiling points that | condense together during | such as alkanes. |
| A polymer | is a very large molecule | is made from | the elements | carbon and hydrogen only. |
| A repeat unit | is a hydrocarbon with | the same general formula, | many other small molecules to | lots of small molecules. |
| A fraction | | only single bonds between | produce the | form a polymer. |
| A homologous series | is a small molecule that | if repeated, would | which react in a similar way, | fractional distillation of crude oil. |

A saturated hydrocarbon _____

An alkane _____

A hydrocarbon _____

A monomer _____

A polymer _____

A repeat unit _____

A fraction _____

A homologous series _____

Connection completion

Choose the letter from the table below that contains the correct row of connective words to complete these sentences:

Polymerisation is the addition of many monomers together _____ polymer formation. Ethene is a hydrocarbon _____ it contains only hydrogen and carbon atoms. The C=C double bond in ethene means it can undergo polymerisation and polythene is _____ formed which is a saturated hydrocarbon.

| | | | |
|----------|--------------|----------|--------------|
| A | resulting in | since | consequently |
| B | since | although | therefore |
| C | causing | because | conversely |
| D | thus | so | somehow |