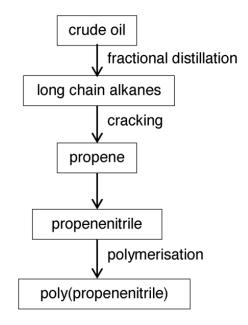


## GCSE Chemistry A (Gateway Science) J248/04 Chemistry A C4-C6 and C7 (Higher Tier)

**Question Set 22** 

Poly(propenenitrile) is an addition polymer.

Look at the flow chart. It shows how poly(propenenitrile) is made from crude oil.



(a) Crude oil is a mixture of hydrocarbons.

Fractional distillation separates the hydrocarbons in this mixture.

Explain how fractional distillation separates the hydrocarbons, in terms of intermolecular forces.

(b) Look at the displayed formula for propenenitrile.



How can you tell from the displayed formula that propenenitrile is an unsaturated compound?

[1]

[2]

## **Total Marks for Question Set 22: 3**

1

## **Resource Materials**

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The Periodic Table of the Elements



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