**Fermentation**

**2018**

Ethene can by produced by cracking long-chain hydrocarbons such as hexane in crude oil. The ethene can

then be used to produce the alcohol, ethanol. Ethanol can also be produced by fermentation.

How does the process of producing ethene from hexane (cracking), differ from the process of

fermentation to form ethanol?

In your answer, you should include:

• a description of the two processes

• explanations of any conditions required

• balanced symbol equations for any reactions occurring, in the labelled boxes below.

**2016**

How does the industrial preparation of methanol from natural gas differ from the process of fermentation to form ethanol?

In your answer, you should include:

• a description of the two processes

• explanations of any conditions required

• balanced symbol equations for any reactions occurring

**2015**

One method of producing ethanol is by fermentation.

Explain how ethanol is produced by fermentation.

In your answer, you should:

• complete the following word equation and balanced symbol equations

• identify and elaborate on any conditions required for fermentation to occur.

glucose →

C6H12O6 →

• the conditions required for fermentation to occur

• a word equation for the fermentation reaction, showing all the reactants and products.

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