



"Do not give up – the beginning is always the hardest"

VCE Chemistry

Organic Chemistry

**Properties and reactions of alkanes
and alkenes**

Name: _____

Date: ___/___/___

Start: ___ **Finish** ___

Mark: _____

Comment:

1. Understanding the properties of organic compounds.

List three distinctive properties of the following organic compounds:

i. Alcohols

ii. Amines

iii. Carboxylic Acid

iv. Esters

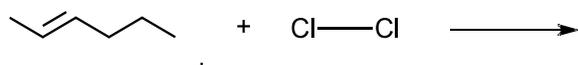
v. Alkene

2. Explain how you can differentiate between but-2-ene and butane.

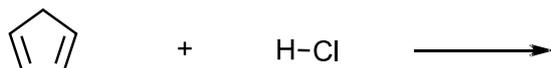
3. Explain the difference that you expect to see in the solubility of methanol compared to pentanol. Ensure to explain why alkanols are soluble in water.

4. Complete the following equations, ensure to name the final product

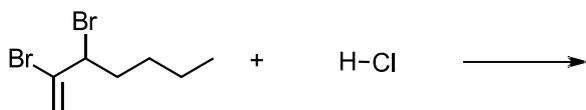
i.



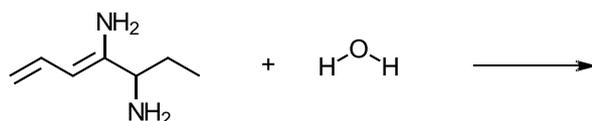
ii.



iii.



iv.



5. Explain why chlorination of an alkane requires fractional distillation however the chlorination of an alkene does not. Use the examples of propene and propane.