

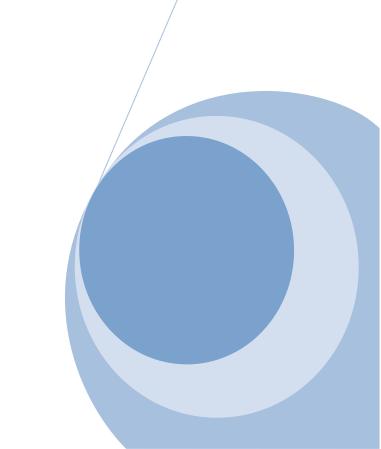
## K Education Centre

## **AS Chemistry**

C6: Organic Chemistry Assignment-4

**Assignment Questions** 

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## **Organic Chemistry Assignment -4**

- Q1: Ethanol is used as fuel in cars.
- a) Write an equation for complete combustion of Ethanol.
- b) Write an equation for incomplete combustion of Ethanol.
- Q2: Ethanol is oxidised when it reacts with potassium dichromate(VI), acidified with sulfuric acid.
- (a) Write an equation to represent the reaction under distillation, and name the organic product.
- (b) Write an equation to represent the reaction under reflux, and name the organic product.
- Q3: Give examples of primary, tertiary and secondary alcohols.
- Q4: Iodoalkanes can be prepared from alcohols.
- a) State two inorganic reagents needed to produce iodoalkanes from alcohols.
- b) The mixture of the reagents in part a) produces phosphorus iodide. Write an equation to represent the reaction between this and propan-1-ol.
- Q5: Propan-1-ol and propan-2-ol, are oxidised by acidified potassium dichromate(VI) under distillation.
- a. Name the organic product of each reaction.

From propan-1-ol:

From propan-2-ol:

- b. Describe a simple laboratory test to distinguish between these two products.
- Q6: Along with laboratory apparatus diagram and equation of the reaction. Explain the formation propanoic acid from propan-1-ol.
- Q7: Give an example of dehydration of alcohols to alkenes.

Q8: Explain what is meant by incineration.

Q9: Explain different ways by which Ethanol can be used as bio fuel.

Q10: What are the different ways by which organic liquid can be purified.