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AS Chemistry

C6 : Organic Chemistry Assignment-4

Assignment Questions

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Year 2024

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.

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