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17/MHS02/016

GEOLOGY

CHM 102

QUESTION 1

1. STEP 1:O=105-16=89

N=89/14

1. Importance of organic compounds

* They are important sources of fuel
* They are good starting materials for many synthetic products
* They are important sources of many chemicals used in industries and are important in many chemical processes

1. Homocyclic compounds are formed with only one type of atom which is 100% carbon. Examples are phenol and toluene

WHILE

Heterocyclic compounds are compounds which contain mainly carbon and other heteroatom such as nitrogen, oxygen and sulphur. Examples are pyridine and furan.

QUESTION 2

1. Rf= distance moved by substance

distance moved by solvent front

: RFa= 2.4cm/12.2cm=0.2

RFb= 5.6cm/12.2cm=0.45

RFc=8.9cm/12.2cm=0.73

1. A=aldehyde

B=alkene

1. It is used for identifying aldehydes and ketones
2. Functional groups and examples

* Ethers e.g. methanomethane,ethanomethane
* Ketones/alkanols e.g. butanone,propan-2-one
* Esters/alkylalkanoates e.g. methylethanoate,ethylethanoate
* Alkyl halides e.g. iodoethane,chlorohexane
* Amides e.g. methanamide, propanamide
* Amines e.g. methylamine, ethylamine
* Alkanes e.g. methane, butane