

Uyanwanne Chiamaka Faith

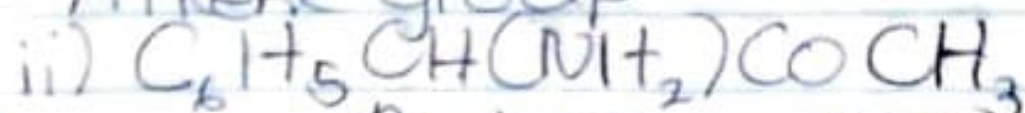
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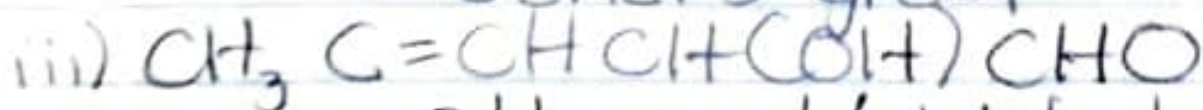
CHM 102 assignment



- Alkanols or alcohols
- Aldehydes or Alkanals
- Alkene group



- 2)
- Amines group
 - Ethers group



- alkanal / aldehyde group
- Alkene group
- Alkanol / alcohol group

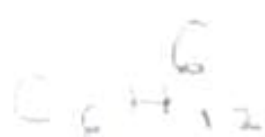
2) Pure sample = 0.856g
diluted to 10cm^3

Observed rotation 1.0°

Specific rotation = ?

$$S.R = \frac{\text{Observed rotation } (^\circ)}{\text{Concentration } (\text{g}/\text{cm}^3) \times (\text{path of cell in cm})}$$

Concentration $(\text{g}/\text{cm}^3) \times (\text{path of cell in cm})$



to find concentration

$$= \frac{\text{mass}}{\text{Volume}} = \frac{0.856g}{100cm^3}$$

$$S.R. = \frac{+1.0}{100}$$

$$(0.0856g/cm^3)(1dm^3)$$

$$S.R. = +11.68g^{-1}cm^3dm^{-1}$$

3) Hexa-2,4-diene

iii) 2,3-Dimethylbut-2-ene

