

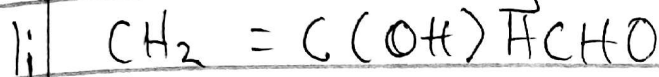
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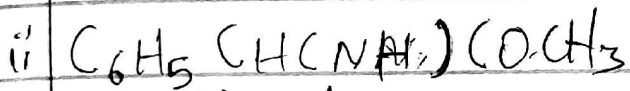
Matric Number: 19/MHS01/195

Course: Chem 102

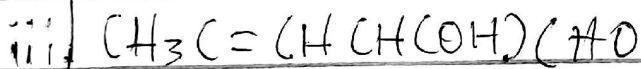
Assignment



Functional groups present: - OH (Alcohol)
- CHO (Aldehyde)



Functional groups present: C_6H_5 (Phenyl group)
- NH_2 (Amine)
- $\text{C}=\text{O}$ (Ketone)



Functional groups present: - OH (Alcohol)
- CHO (Aldehyde)

2 $\alpha \lambda = \frac{\alpha}{C \cdot L}$

$$C = \frac{\text{mass}}{\text{volume}} = \frac{0.856}{10} = 0.0856 \text{ g/ml}$$

$$\alpha = \text{observed rotation} = 1^\circ$$

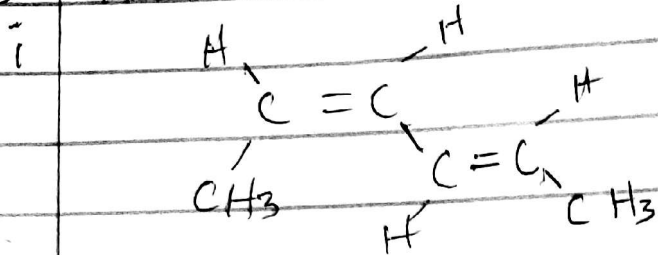
$$L = \text{path length in dm} = 1 \text{ dm}$$

$$\alpha \lambda = \frac{\alpha}{C \cdot L}$$

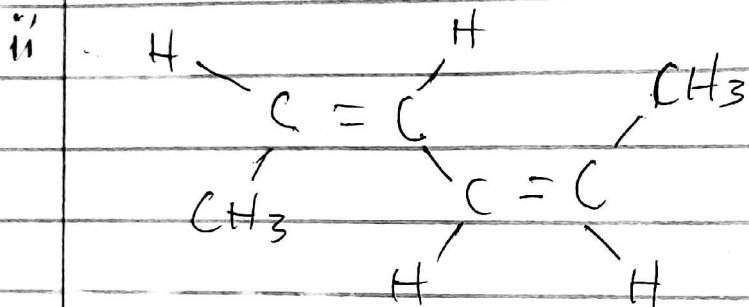
$$0.0856 \times 1$$

$$\alpha \lambda = 11.682^\circ$$

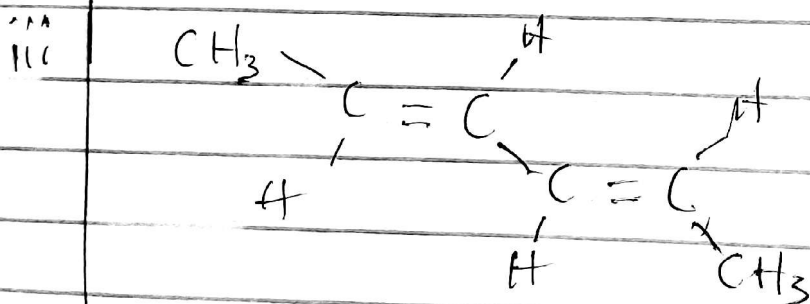
3a Hexa-2,4-diene



Cis, trans-hexa-2,4-diene

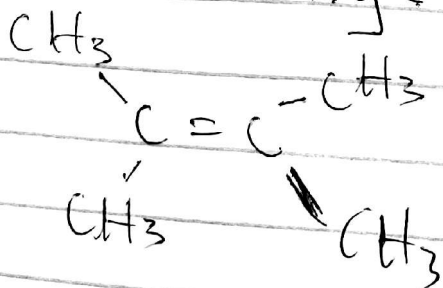


Cis, cis-hexa-2,4-diene



trans, trans-hexa-2,4-diene

b 2,3-dimethylbut-2-ene



This compound has no geometric isomers because there are two identical groups attached to the same carbon atom of the double bond.