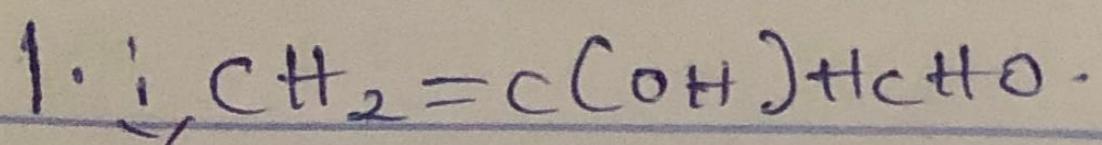
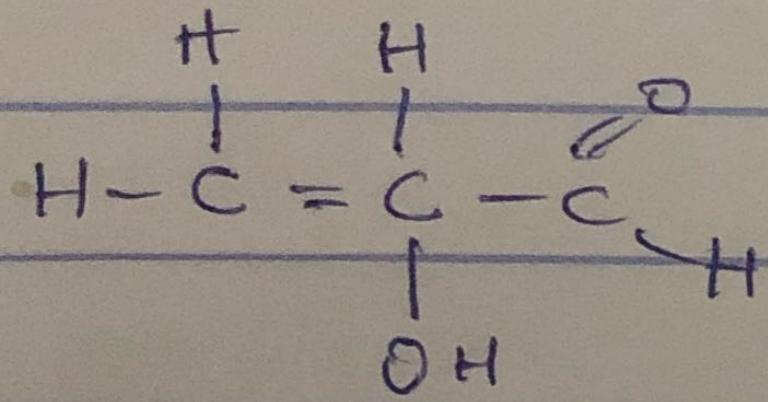


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The structural formula:

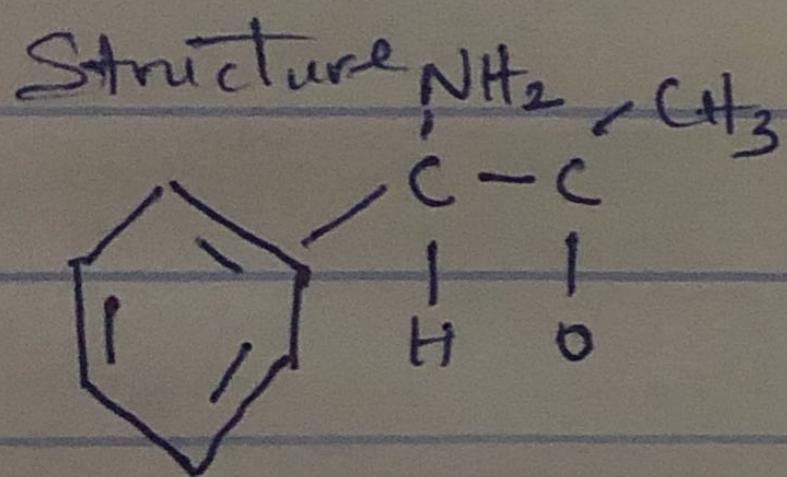
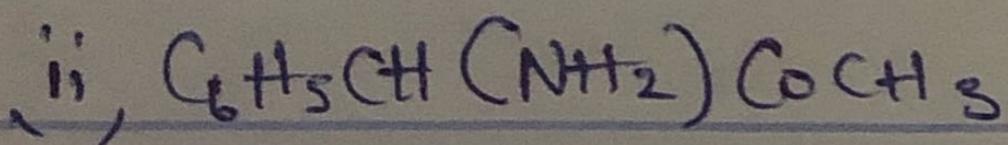


functional group present

- Double bond chain (Alkane)

- OH (hydroxyl group)

- C^{H} (Alkanol)

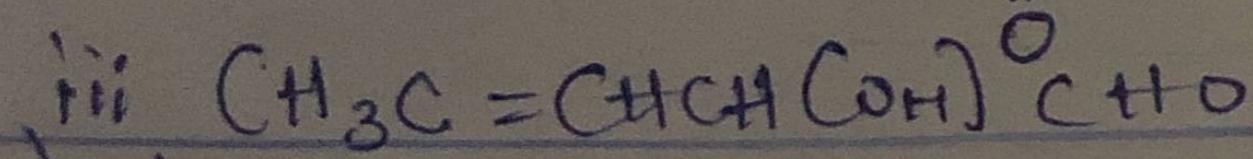


functional group present

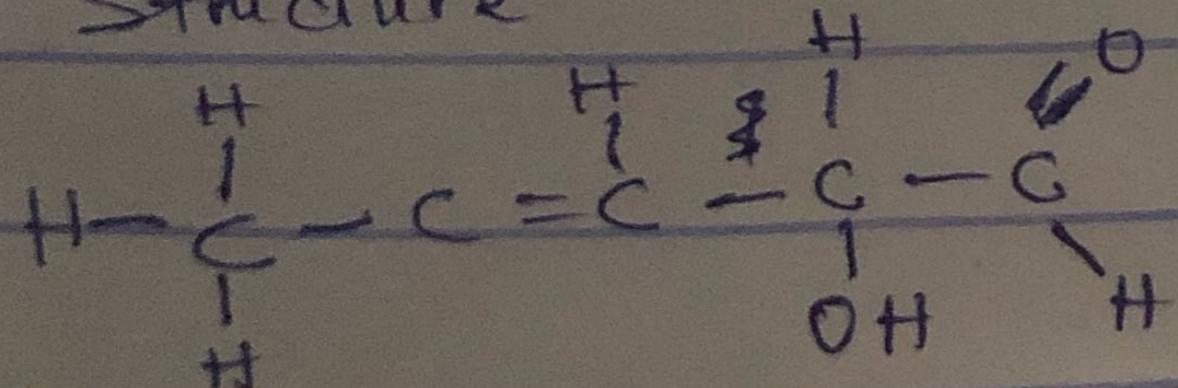
- Phenyl group (C_6H_5) with double bonds

- Amine

- Alkanone/Ketone ($\text{C}=\text{O}-\text{R}$)



Structure



functional group present

- Alkene ($\text{C}=\text{C}$)

- Hydroxyl group (OH)

- Alkanol (C^{H})

$$2. \text{ Recall; } [\alpha]_D^T = \frac{\alpha}{l \times c}$$

where $l = \text{length of Path} = 1 \text{ dm}$

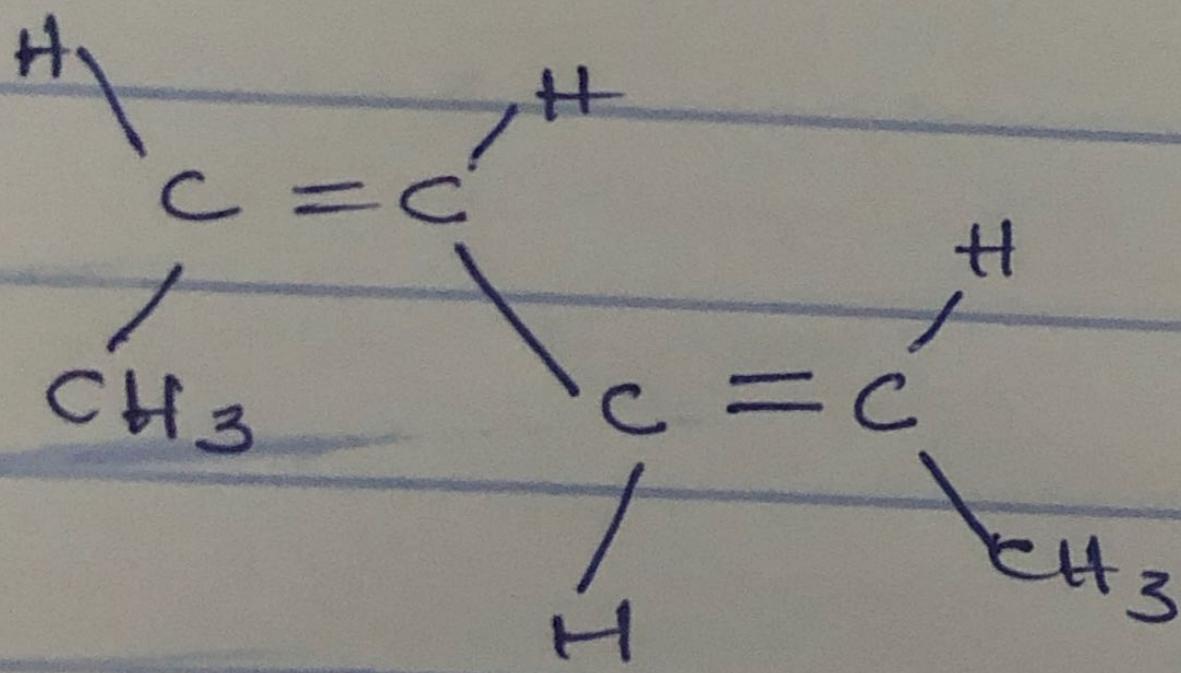
$\alpha = \text{observed rotation} = 1^\circ$

$$c = \frac{\text{mass}}{\text{volume}} = \frac{0.856}{10} = 0.0856 \text{ g/mol}$$

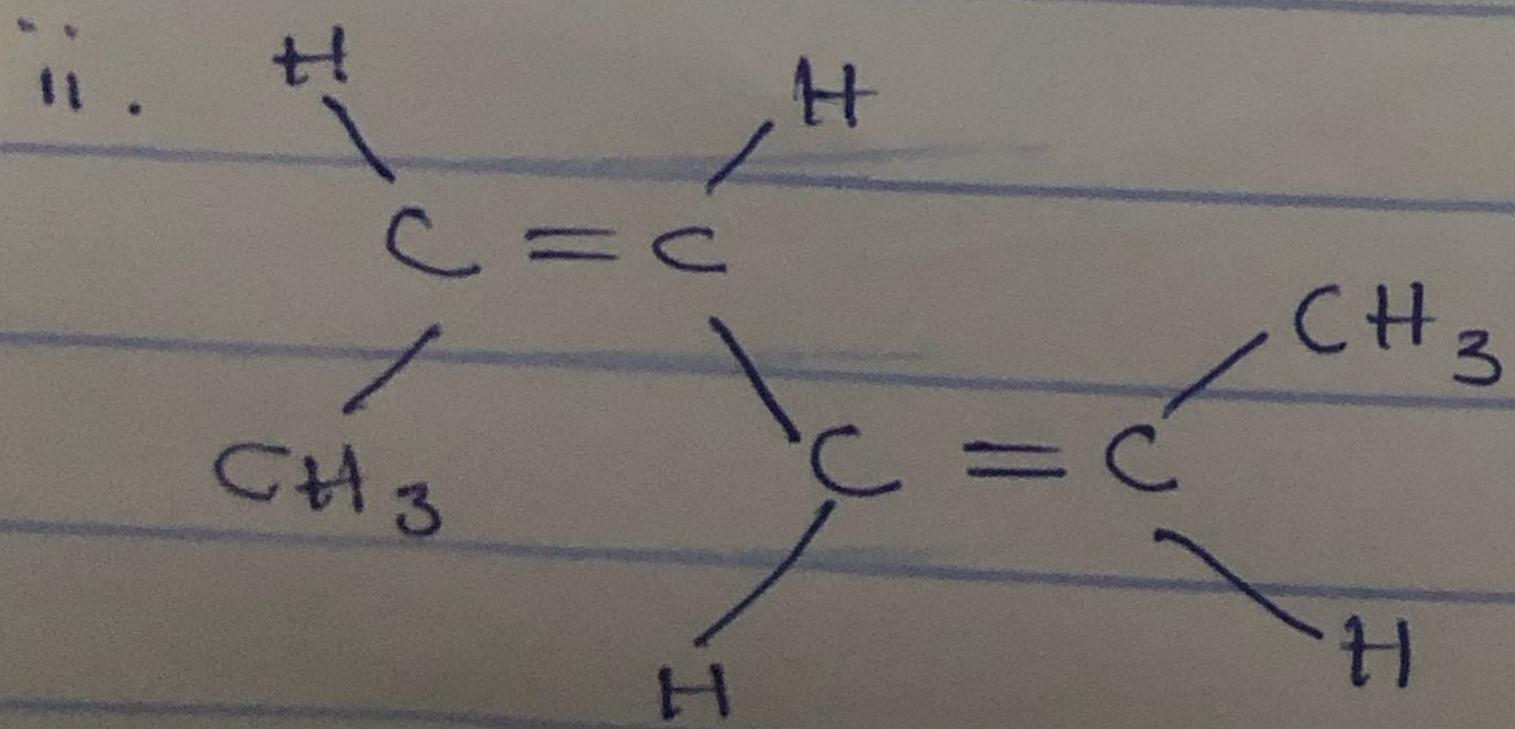
$$\frac{\alpha}{c} = \frac{1}{0.0856 \times 1}$$

$$\alpha_D^T = 11.682^\circ$$

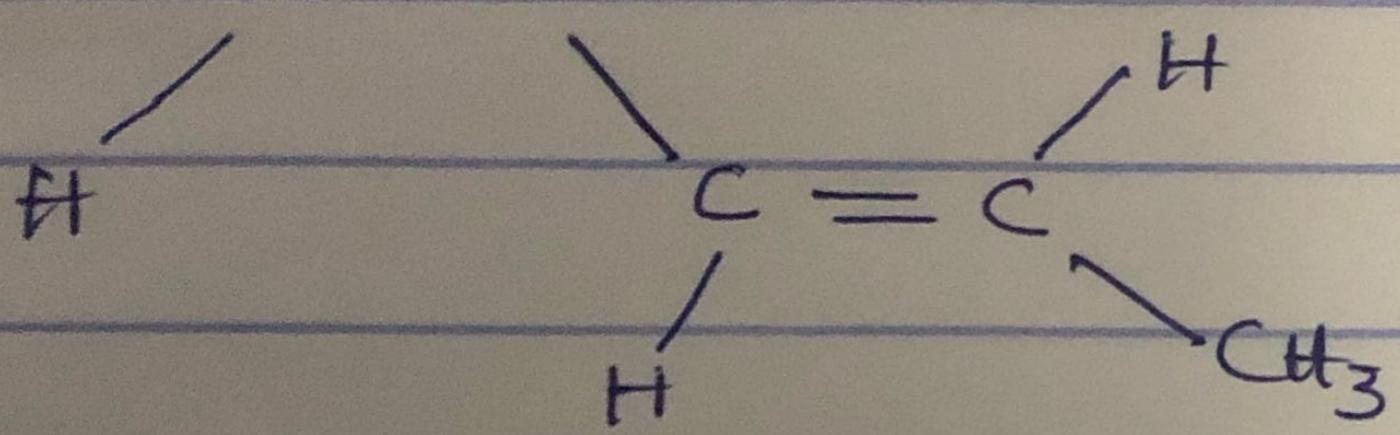
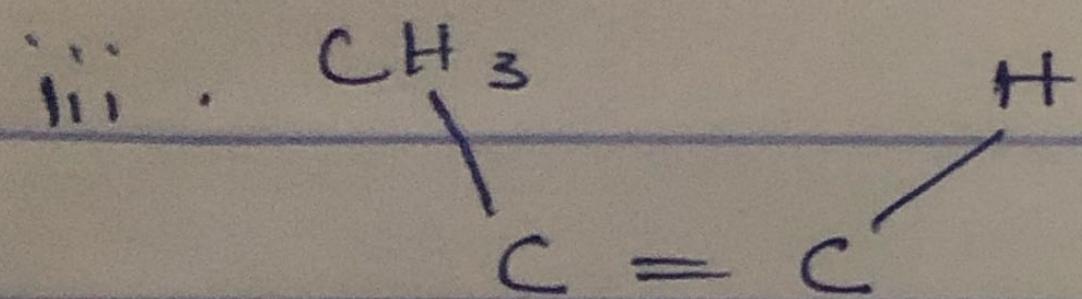
3a. Hexa-2,4-diene



Cis, trans-hexa-2,4-diene

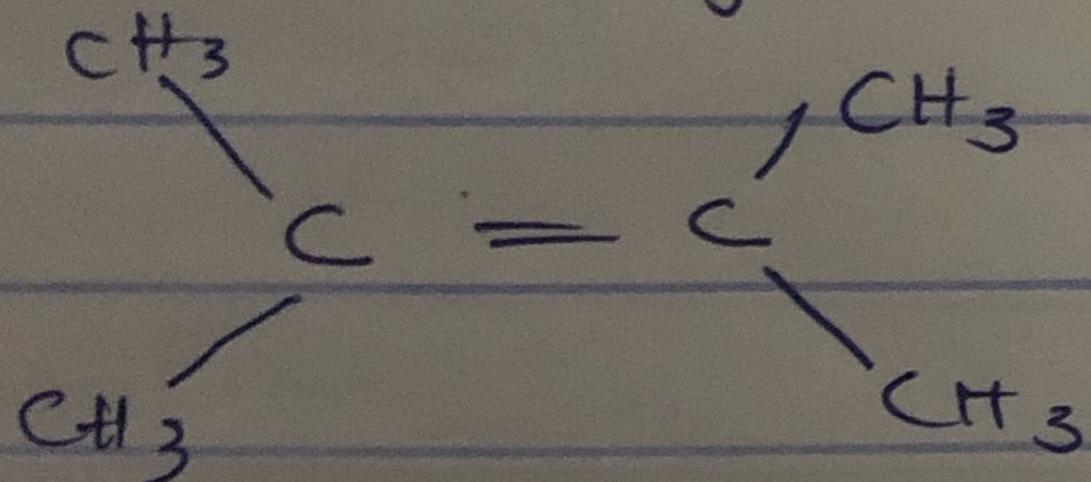


Cis, cis-hexa-2,4-diene



trans,trans-hex-2,4-diene.

b. 2,3-dimethyl but-2-ene



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