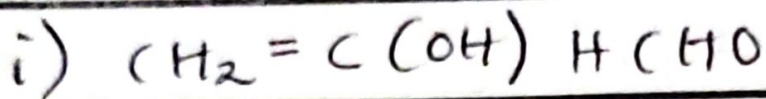


① OKF Ayobanji Oukolac

Chem 102

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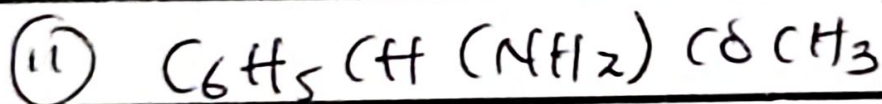


There are 3 functional groups

a) Alkene

b) Hydroxyl group

c) Alkanal

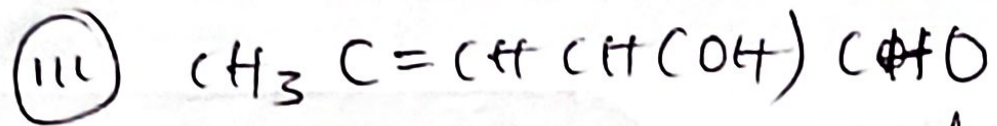


There are three functional groups

- Phenyl group with double bond

- Amine

- Alkanone / ketone



There are 3 functional groups:

- (i) Alkene
- Hydroxyl group
- Alkanal

2) Specific rotation =  $\frac{\text{Observed rotation}}{(\text{Conc } \text{g/cm}^3) \times \text{path length of sample cell in dm}}$

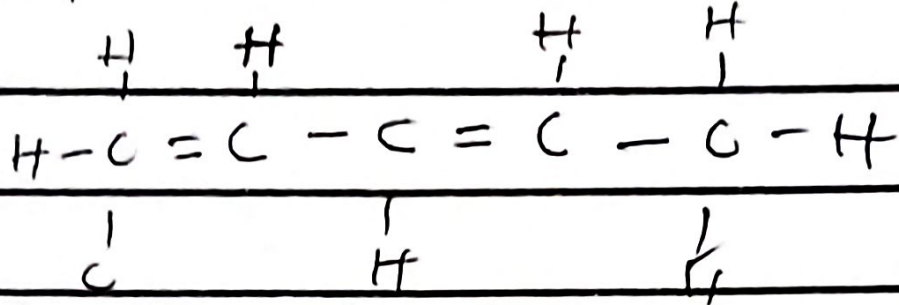
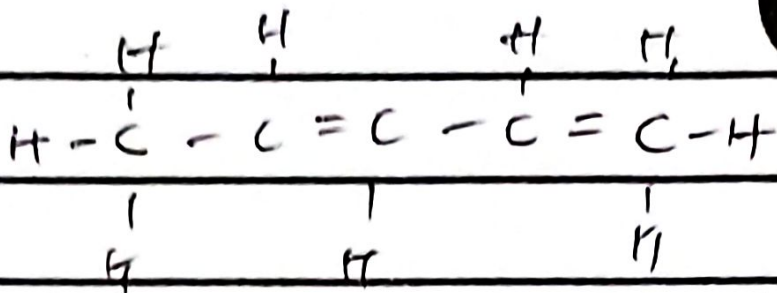
$$\text{Conc } \text{g/cm}^3 = \frac{0.856 \text{ g}}{10 \text{ cm}^3}$$

$$= 0.0856 \text{ g/cm}^3$$

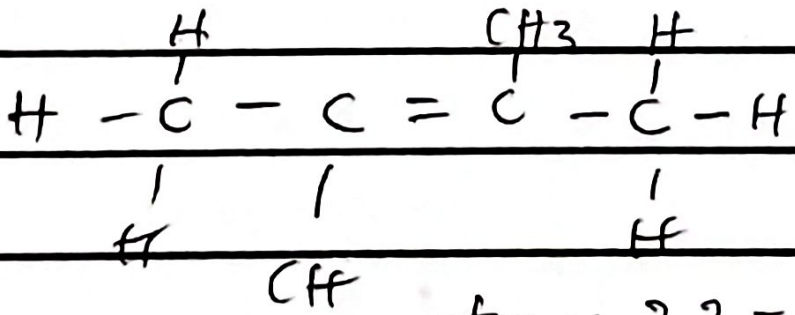
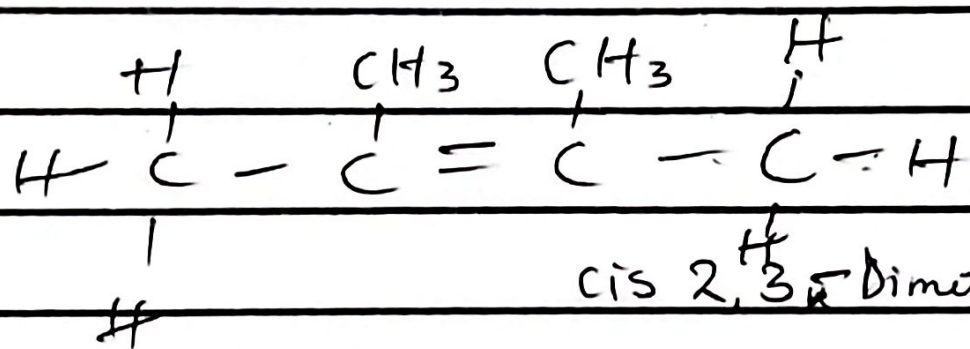
$$= \frac{1.0^\circ}{0.0856 \times 1}$$

$$\approx 11.68\%$$

(3) Hexa-2,4-diene



(11) 2,3-Dimethylbutan-2-ene



trans 2,3-Dimethylbutan-2-ene