

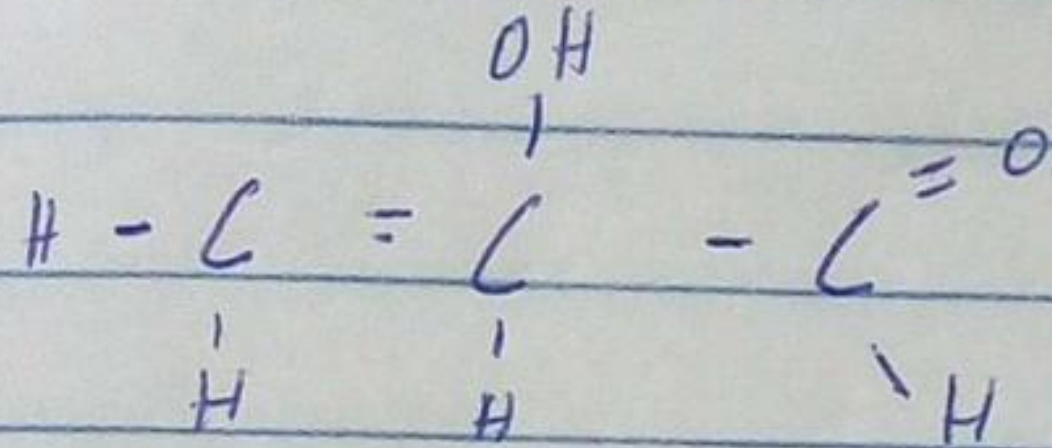
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CHM 102

i) $\text{CH}_2 = \text{C}(\text{OH})\text{CHO}$

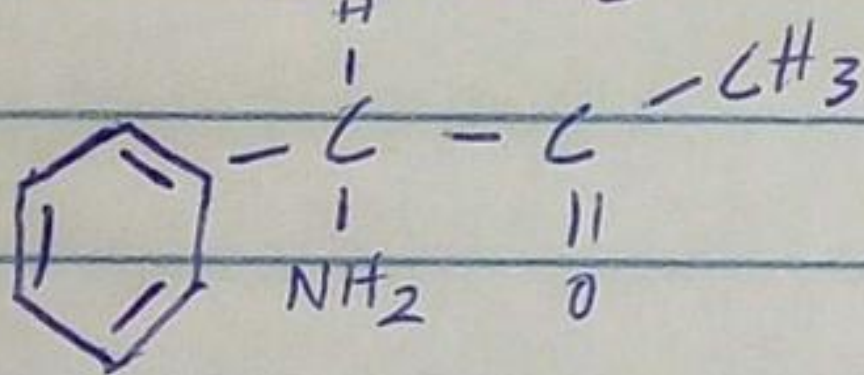


Functional groups: Double bond chain - Alkene

OH - hydroxyl group

$\text{C} = \text{O}$
- Alkane

ii) $\text{C}_6\text{H}_5\text{CH}(\text{NH}_2)\text{COCH}_3$

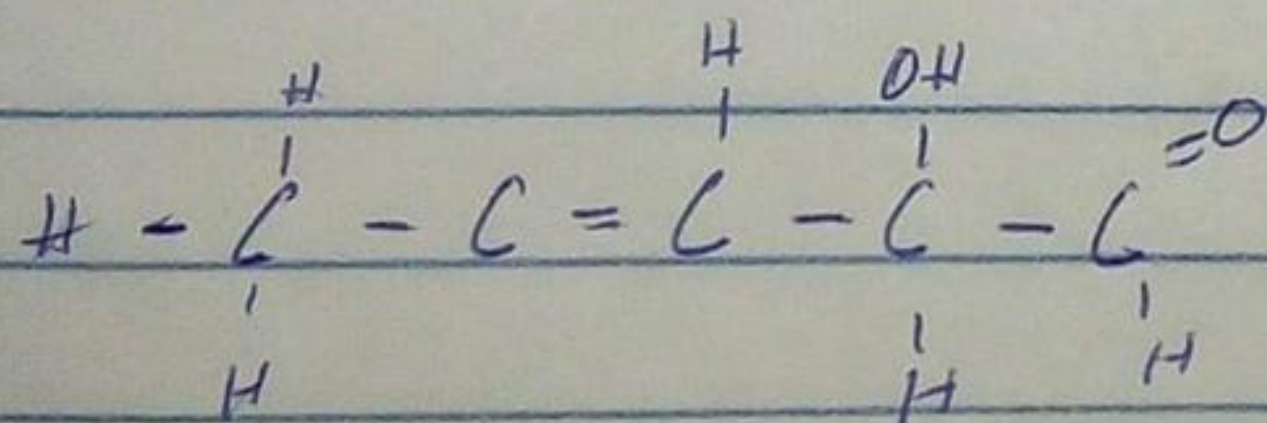


Functional group: Phenyl group (C_6H_5) with double bond

Amine

Alkane ketone ($\text{C} = \text{O}$)

iii) $\text{CH}_3\text{C} = \text{CHCH}(\text{OH})\text{CHO}$



Functional group: Alkene ($\text{C} = \text{C}$)

Hydroxyl group (OH)

Alkane ($\text{C} = \text{O}$)

2 Recall:

$$\left[\alpha \right]_{\lambda}^T = \frac{\alpha}{l \times c}$$

where

l = length of sample base

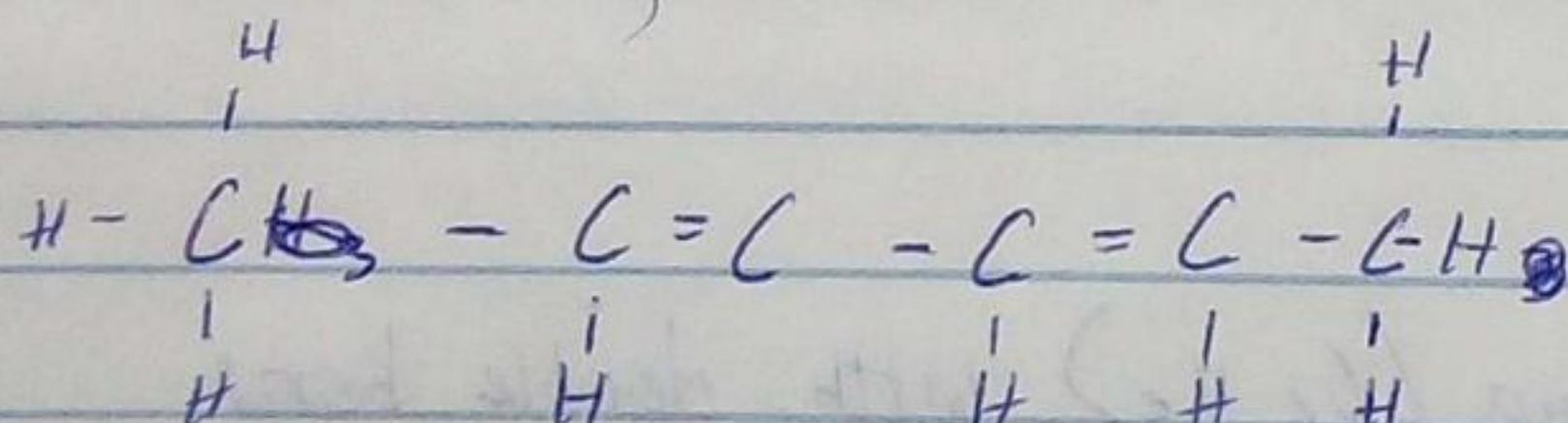
c = mass (g/dm³) or (g/mol)
Volume

α = observed rotation

$$S_D = \frac{1.0}{1.0 \times \left(\frac{0.856}{10} \right)}$$

$$S_D = \frac{1}{0.0856} = 11.68$$

3: Hexa-2,4-diene



4: 2,3-Dimethylbut-2-ene

