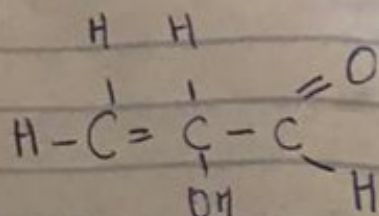


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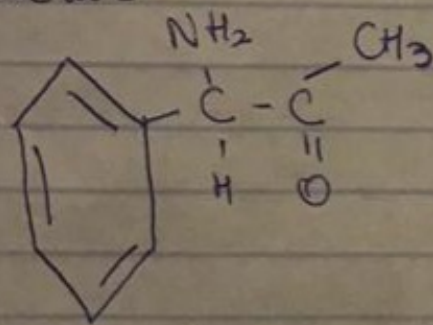
i) $\text{CH}_2 = \text{C}(\text{OH})\text{HCHO}$
 The structural formula



functional groups present are:

- Double bond chain = (Alkene)
- OH Hydroxyl group
- $\begin{array}{c} \text{O} \\ || \\ \text{C}-\text{H} \end{array}$ (Alkanoal)

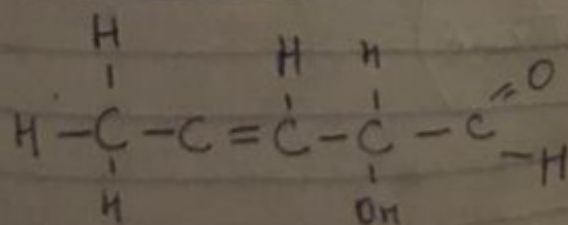
ii) $\text{C}_6\text{H}_5\text{CH}(\text{NH}_2)\text{COCH}_3$
 Structure



functional groups present

- phenyl group (C_6H_5) with double bonds
- Amine
- Alkanone / Ketone $\begin{array}{c} \text{C}-\text{R} \\ || \\ \text{O} \end{array}$

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



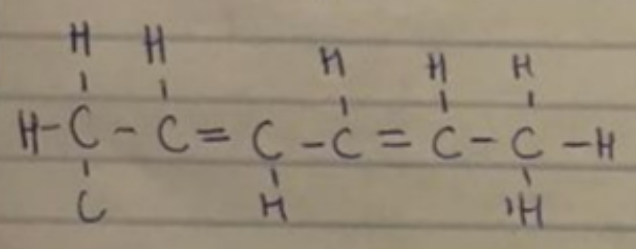
- functional groups present
- Alkene (C=C)
 - Hydroxyl group (OH)
 - Alkane (C-H)

2) Recall
$$[\alpha]_D^{25} = \frac{\alpha}{l \times c}$$

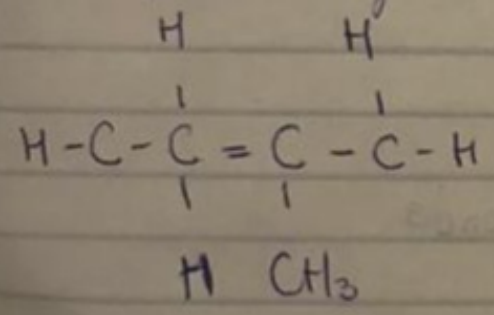
$$S_r = \frac{1.0}{1.0 \times [0.856 \div 10]}$$

$$S_r = \frac{1}{0.0856} = 11.68\%$$

3) Hexa-2,4 diene



ii) 2,3-Dimethylbut-2-ene



OR

