

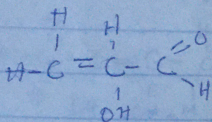
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MECHANICAL ENG.

19/ENG061007

i) $\text{CH}_2 = \text{C}(\text{OH})\text{CH}_3$

The structural formula

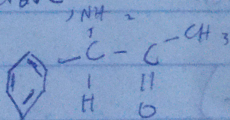


functional present are

- Double bond chain = Alkene
- OH (hydroxyl group)
- C Alkanol

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

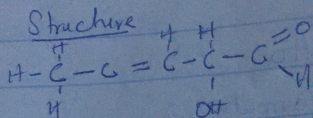
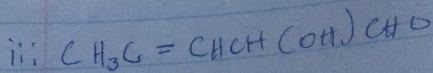
Structure



functional present

- Phenyl group (C_6H_5) with double bonds
- Amine

- Alkanone / Ketone $\begin{pmatrix} \text{C}-\text{R} \\ \text{H} \\ \text{O} \end{pmatrix}$



functional present

- Alkene ($\text{C}=\text{C}$)
- Hydroxyl group (OH)
- Alkanol ($\begin{pmatrix} \text{C}=\text{O} \\ | \\ \text{H} \end{pmatrix}$)

(2) Recall;

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

where

l = length of sample

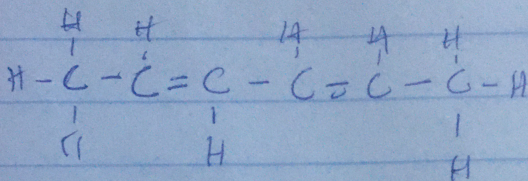
c = $\frac{\text{mass}}{\text{volume}}$ (g/dm^3) or (g/mol)

α = observed rotation

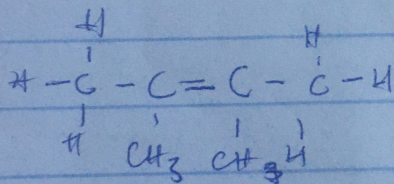
$$S_r = \frac{7.0}{1.0 \times \left(\frac{0.856}{10} \right)}$$

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

3) Hexa-2-4 diene



2,3-Dimethylbut-2-ene



or

