19/ENG06/062 CHM102 ~~19/ENG06/062~~

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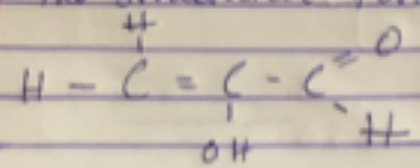
1 i $CH_2=C(OH)HCHO$.

The structural formular

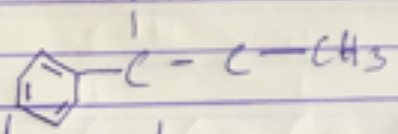


functional present are;

- Double bond chain = (Alkene)
- OH (Hydroxyl group)
- E (alkanal)

ii $C_6H_5CH(NH_2)COCH_3$

Structure;

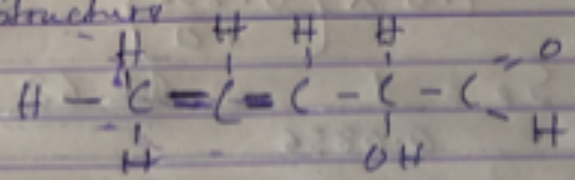


functional present

- Phenyl group ~~H~~ (C_6H_5) with double bonds
- Amine
- Alkanone / Ketone ($C-R$, O)

iii $CH_2C=CHCH(OH)CHO$

Structure



functional present

- Alkene ($C=C$)
- Hydroxyl group (OH)
- Alkanal ($C=O$, H)

2 Recall

$$[\alpha]^T_\lambda = \frac{\alpha}{l \times c}$$

where

l = length of sample tube

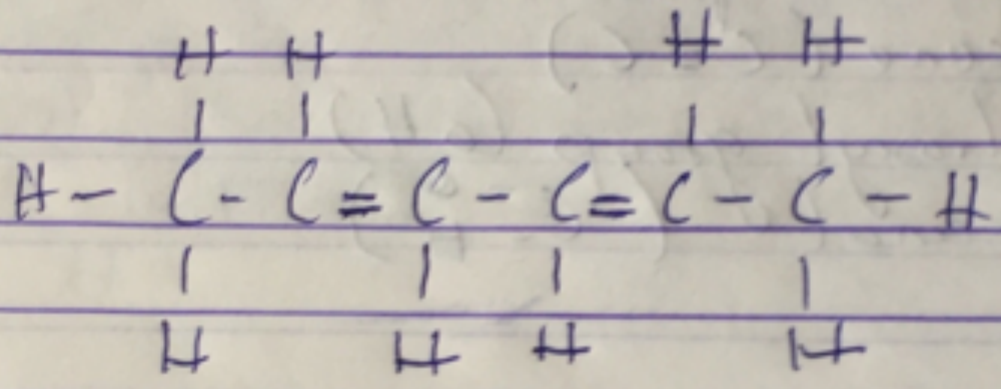
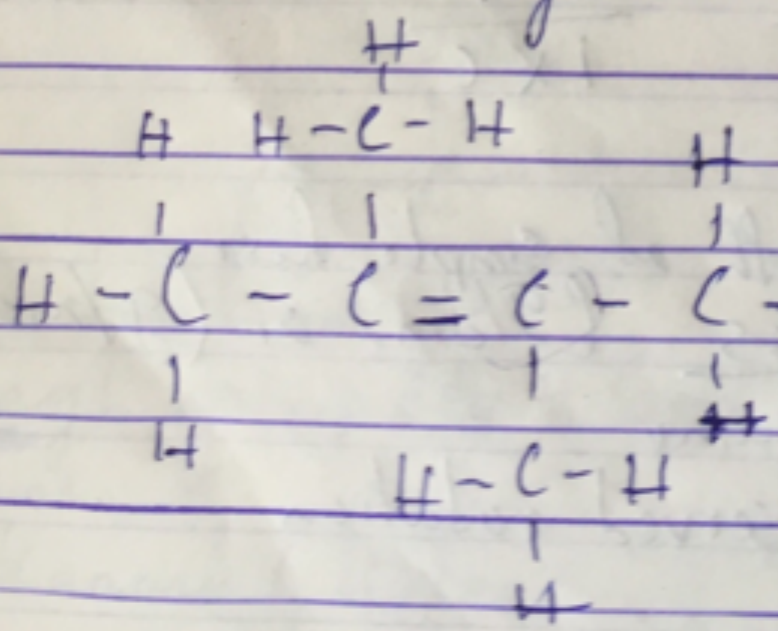
$c = \frac{\text{mass}}{\text{volume}}$ (g/dm) or (g/mol)

α = observed rotation

$$S_8 = \frac{1.0}{1.0 \times \left(\frac{0.856}{10}\right)}$$

$$S_8 = \frac{1}{0.0856} = \underline{\underline{-11.68}}$$

3i Hexa - 2-4 diene



ii 2,3-Dimethylbut-2-ene