

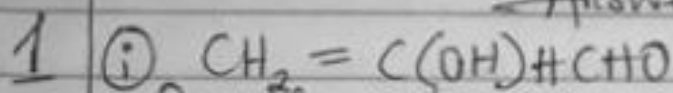
АИРА РА СТУДИЯЕМЕКА

19 / МНСО / 061

СНМ 102

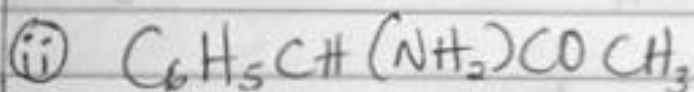
МБББ

Answers.



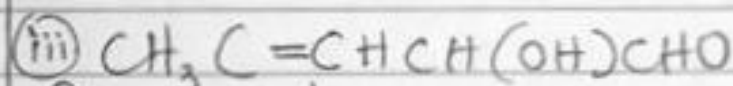
functional groups present are:

- Double bond chain (Alkene)
- OH (Hydroxyl group)
- $\text{C}=\text{O}$ (aldehyde / formyl group)



functional groups present are:

- Phenyl group (C_6H_5) with double bond (Aromatic group)
- Amine group (NH_2)
- Alkanone / ketone ($\text{C}=\text{O}$)



functional groups present are:

- Alkene ($\text{C}=\text{C}$) double bond
- Hydroxyl group (OH)
- Aldehyde ($\text{C}=\text{O}$) Aldehyde

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

where l = length of sample tube

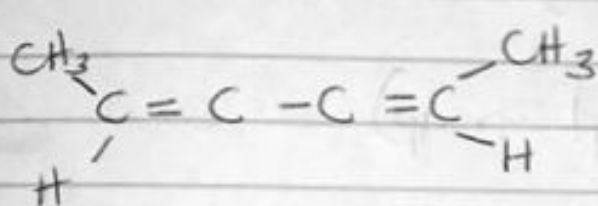
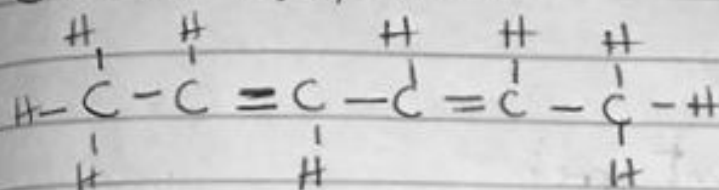
c = mass / volume (g/cm^3) or (g/mol)

α = observed rotation

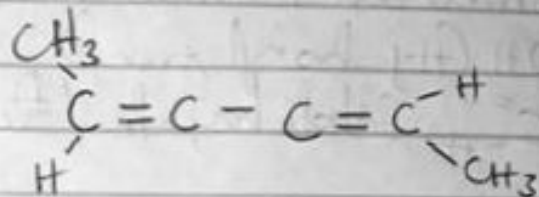
$$S_r = \frac{1.0}{1.0 \times \left(\frac{0.856}{10}\right)}$$

$$S_x = \frac{1}{0.0856} = \underline{\underline{11.68}}$$

5) (i) Hexa-2,4,diene



Cis



trans

(ii) 2,3-Dimethylbut-2-ene

