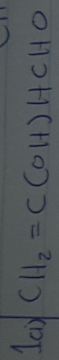
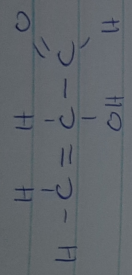


Badare Obukawho Destiny
 MBBS
 19/m 11501/115

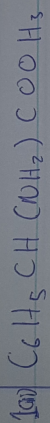
CHM 102



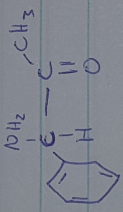
The structural formula



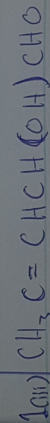
- Functional group present are:
 Double bond chain = Alkene
 OH (hydroxyl group)
 $\text{C}=\text{O}$ (aldehyde)



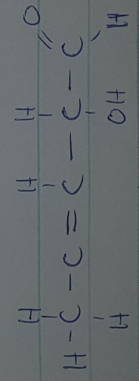
Structure



- Functional group present
- Phenyl group (C_6H_5) with double bonds
 - Amine
 - Alkene / ketone ($\text{C}=\text{O}$)



Structure



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

2. Recall

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

Where:

l = Length of Sample pure

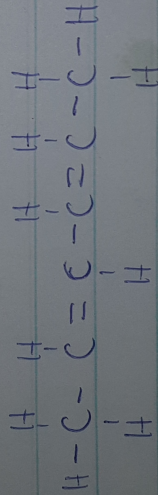
c = $\frac{\text{Mass}}{\text{Volume}}$ (g/dm^3) or (g/mol)

α = observed rotation

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

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

3i) Hexa-2,4-diene



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

