

Name: Nwogu Angela
 Matric No: 19/MHS01/266
 Department: Medicine/surgery
 Course Code: Chem 102

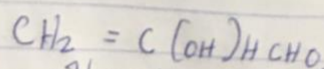
Nwogu Zunim Angela

19/MHS01/266

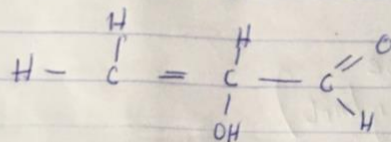
Chem 102 assignment

MBBS level

(i)

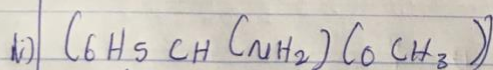


The structural formula

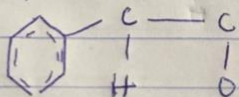


Functional present are:

- Double bond chain (Alkene)
- OH (hydroxyl group)
- C^{O} (aldehyde)

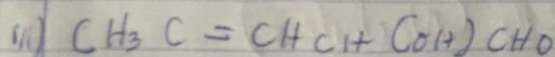


Structure; NH_2 CH_2

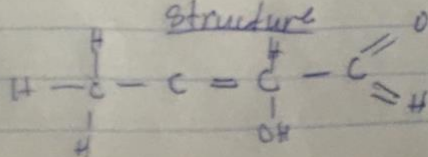


Functional present

- Phenyl group (C_6H_5) with double bonds
- Amine
- Alkaneone / Ketone ($\text{C}^{\text{O}} - \text{R}$)



Structure



Functional present

- Alkene (C=C)
- Hydroxyl group (OH)
- Alkanol (C-O-H)

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

where

l = length of complete tube

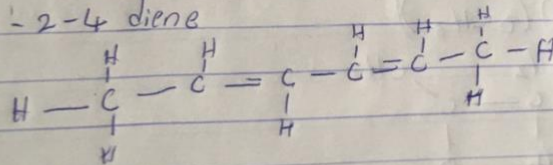
c = $\frac{\text{mass}}{\text{Volume}}$ (g/dm³) or (g/mol)

α = Observed rotation.

$$S_r = \frac{1.0}{1.0 \times \left(\frac{0.856}{15}\right)}$$

$$S_r = \frac{1}{0.0856} = 11.69//$$

3) Hexa-2-4 diene



e) 2,3-Dimethylbut-2-ene

