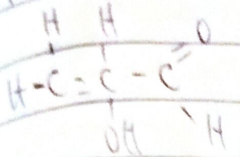
Nze Joshua Chibuzor
MBBS
19/MC/1501/265

CHM 102

Assignment on Stereochemistry and functional Group

a. $CH_2 = C(OH)HCHO$

The Structural formular

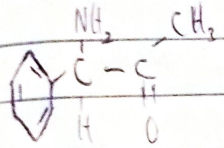


Functional group present are:

- Double bond Chain = Alkene
- OH (hydroxyl group)
- C=O, H (alkanal)

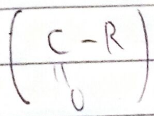
b. $C_6H_5CH(NH_2)COCH_3$

Structure



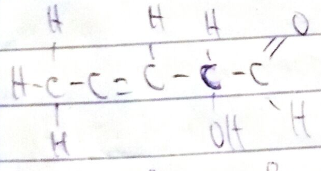
Functional group present

- Phenyl group (C_6H_5) with double bonds.
- Amine
- Alkanone / ketone



c. $CH_3C = CHCH(OH)CHO$

Structure



Functional group 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 fuse

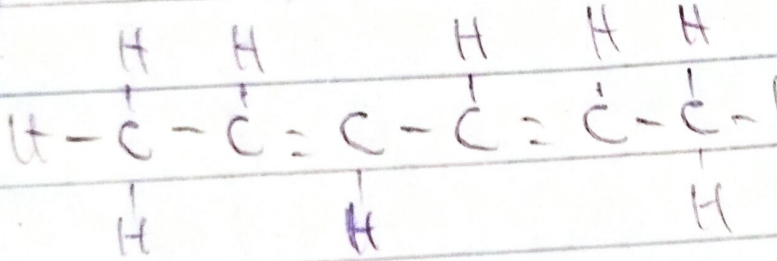
C = $\frac{\text{mass}}{\text{volume}}$ $\left(g/_{dm^3}\right)$ or (g/mol)

α = Observed rotation

$$Sr = \frac{1.0}{1.0 \times \left(\frac{0.856}{c_0}\right)}$$

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

5a Hexa-2,4 diene



6 2,3 - Dimethyl but-2-ene