

$$2 \quad [\alpha]_D^{25} = \frac{\alpha}{l \times C}$$

l = length of the sample

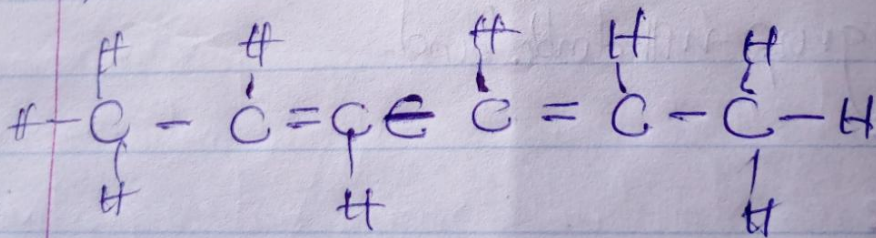
$$C = \frac{\text{mass}}{\text{volume}} \quad (\text{g/dm}^3) \text{ or } (\text{g/ml})$$

α = observed rotation

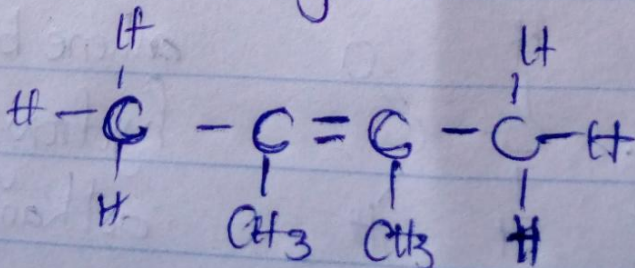
$$S = \frac{1.0}{1.0 \left(\frac{0.856}{10} \right)}$$

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

3 1) Hex-2,4-diene



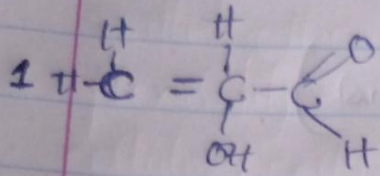
2,3-Dimethylbut-2-ene



19/MHS01/128

CHORIO RILANAH EMMANUEL

CHM 102 Functional Group and Stereochemistry



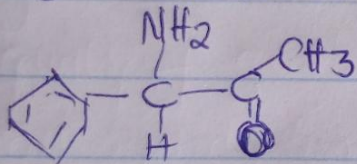
functional group

double bond = alkene

OH → alkane OH → hydroxy group

OH → alcohol

$\text{C}_6\text{H}_5\text{CH}(\text{NH}_2)\text{COCH}_3$

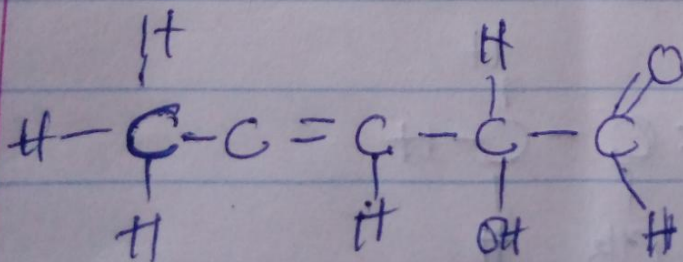


Phenyl group with double bond

Amine

Ketone

$\text{CH}_3\text{C}=\text{CHCH}(\text{OH})\text{CHO}$



alkene bond (C=C)

hydroxyl group (OH)

aldehyde (CHO)

OR

