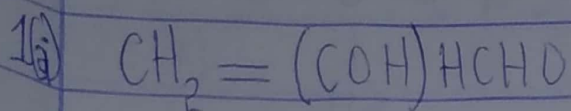


ADESOYE ADEDOLAPO ADEDOYIN

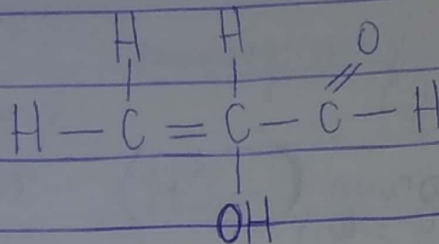
19/MHS 11/014

PHARMACY

CHEM102

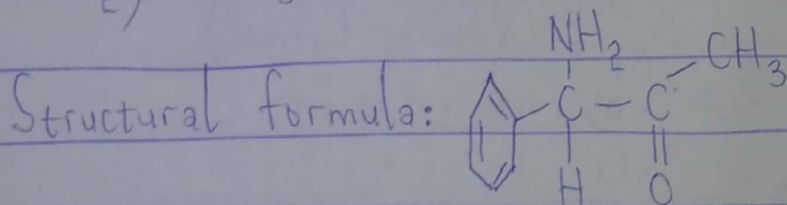
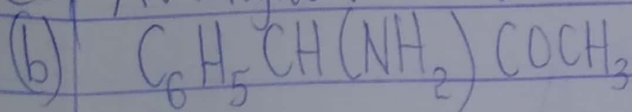
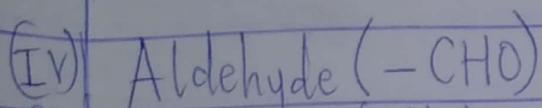


Structural formula



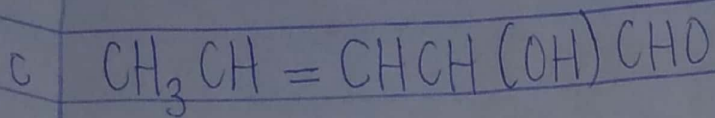
Functional groups present

- I Hydroxyl group ($-\text{OH}$)
- II Double Bond chains (Alkene)
- III $\text{C}=\text{O}$ (Alkanol)

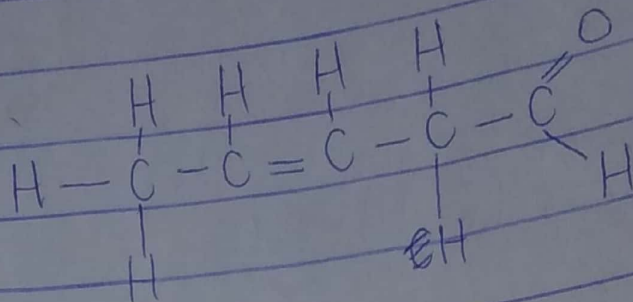


Functional groups present are

- (i) Amine ($-\text{NH}_2$)
- (ii) Alkanone/Ketone ($\text{C}=\text{O}-\text{R}$)
- (iii) Phenyl group (C_6H_5) with double bonds



Structural formula



Functional group present

- (i) Alkene ($\text{C}=\text{C}$)
- (ii) Hydroxyl group ($-\text{OH}$)
- (iii) ~~Alkanol~~ ($\text{C}=\text{O}$)
- (iv) Alkanol ($\text{C}=\text{O}$)
- (v) Aldehyde ($-\text{CHO}$)

2 Recall.

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

Where l = length of sample

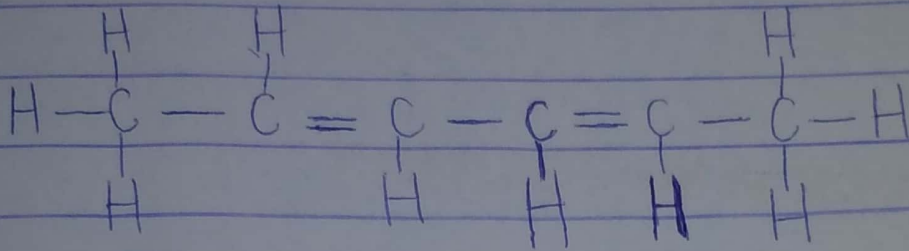
c = Mass/Volume (g/mol)

α = Observed rotation

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

$$S_D = \frac{1}{0.0856} = 11.68^\circ$$

3 (i) Hexa-2,4-diene



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

