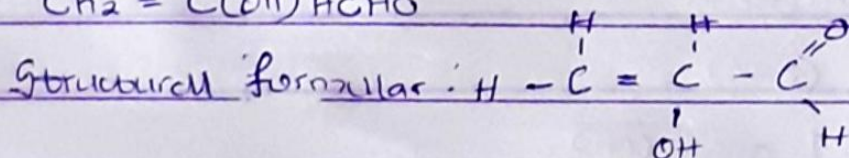
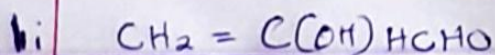


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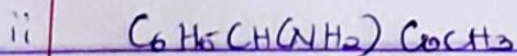


Functional group present:

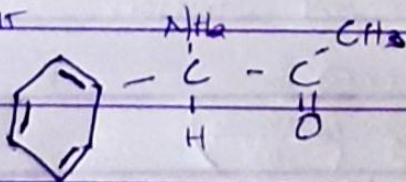
a Alkene (double bond =)

b Hydroxyl group (OH)

c Aldehyde



Structural formula

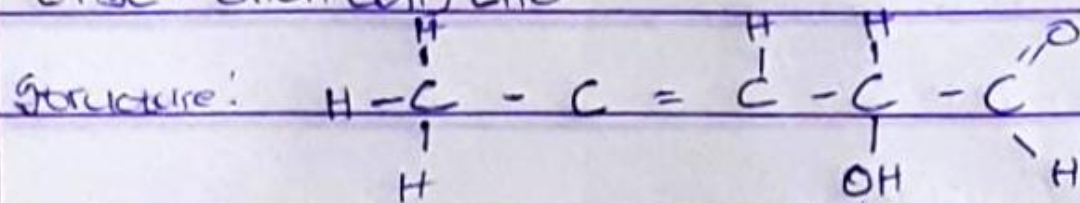
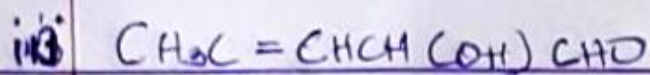


functional groups

a Phenyl group ( $\text{C}_6\text{H}_5$ )

b Amine

c Alkanoate / ketone



Functional group

a Alkene ( $\text{C}=\text{C}$ )

b Hydroxyl group ( $\text{OH}$ )

c Aldehyde

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

Where

$l$  = length of tube

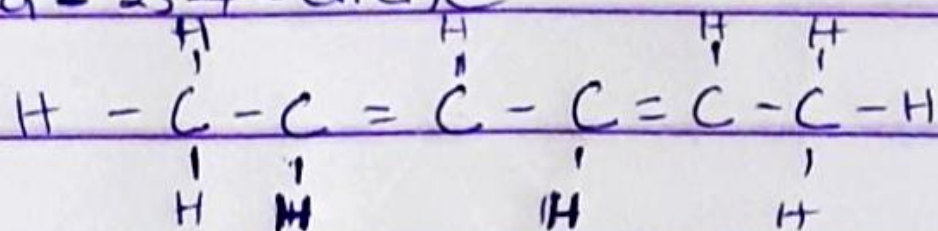
$c$  =  $\frac{\text{mass}}{\text{volume}}$  (g/mol)

$\alpha$  = 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



ii) 2,3-Dimethylbut-2-ene

