Functional group

(i) Alkene (C=C)

(ii) hydroxyl group

(iii) Alkanol

2. $[\alpha]_{\lambda}^{T} = \frac{\alpha}{l \times c}$

where

l = length of sample tube

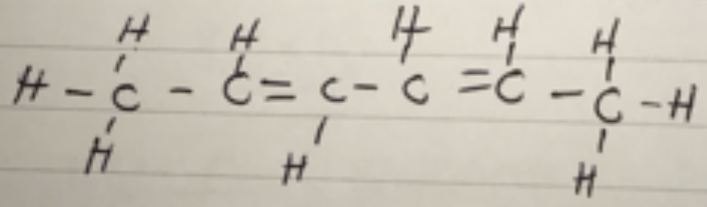
$c = \frac{\text{mass}}{\text{volume}}$ (g/dm^3)

α = observed rotation

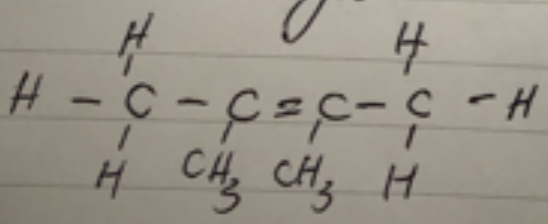
$S_r = \frac{1.0}{1.0 \times \left(\frac{0.896}{1.0}\right)}$

$S_r = \frac{1}{0.956} = 1188$

3. i Hexa-2-diene



ii 2,3-Dimethylbut-2-ene



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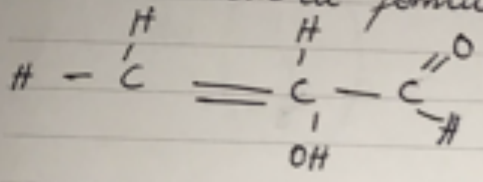
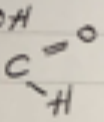
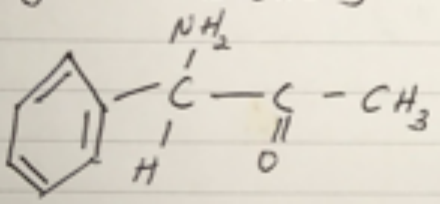
① $CH_2 = C(OH)HCHO$

The structural formula



Functional groups are:
- Double bond chain (=)
- OH
- 

ii $C_6H_5CH(NH_2)COCH_3$



Functional groups are
- Phenyl group (C_6H_5) with double bond
- Amine
- Alkanone ()

iii $CH_3C=CHCH(OH)CHO$

structural formular