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Matric No: 19/ENG06/038
Department: Mechanical Engineering
Course Code: Chem 102

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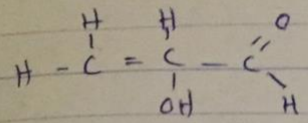
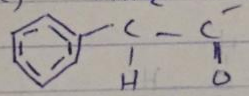
(i) $CH_2=C(OH)HCHO$.
The Structural formular:



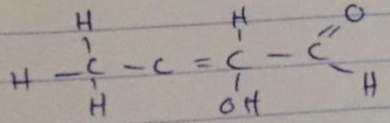
Functional Present are;
- Double bound chain (Alkene)
- OH (hydroxylymP)
- C=O (alkanol)
  H

(ii) $C_6H_5CH(NH_2)COCH_3$
Structure;



Functional Present
- Phenglym? (C_6H_5) with double bonds
- Amine
- Alkanone/ketone ($C(=O)-R$)

(iii) $CH_3C=CHCH(OH)CHO$
Structure:



Functional Present
- alkene (C=C)
- Hydroxyl group (OH)
- Alkanol (C=O, C–H)

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

where

l = ~~leg~~ length of (ample tube.

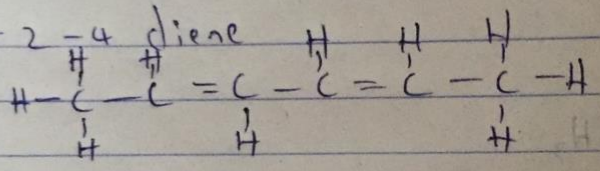
$c = \frac{\text{mass}}{\text{Volume}}$ (g/dm) or (g/mol).

α = observed rotation.

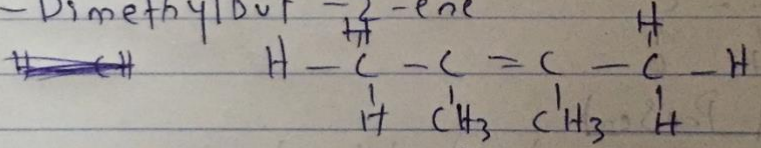
$S_r = \frac{1.0}{1.0 \times \left(\frac{0.856}{46}\right)}$

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

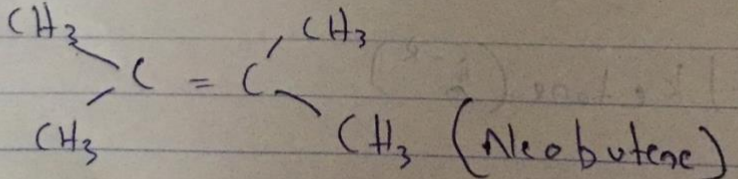
(3) Hexa-2-4 diene



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



OR



(Neobutene)