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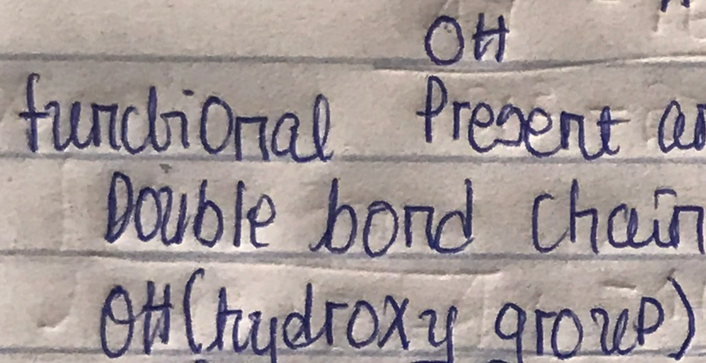
Mechatronics Engineering
19/ENG05/018
CHEM 102 Solution

1i $CH_2=C(OH)HCHO$

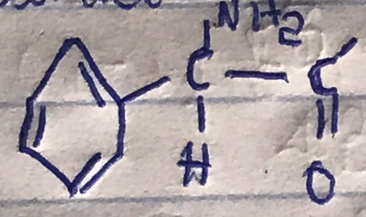
The structural formulae is



functional Present are
Double bond chain (alkene)
OH (hydroxy group)
$=O$ (alkanol)
C_{H}

ii $(C_6H_5CH(NH_2)COCH_3$

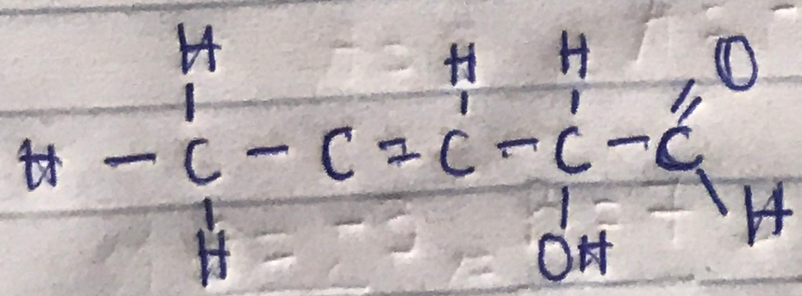
The structural formulae is



functional Present are
Phenyl group (C_6H_5) with double bonds
Amine
Alkanone/ketone $(\overset{O}{\overset{\|}{C}}-R)$

iii $CH_2C=CHCH(OH)CHO$

The structural formulae is



functional Present are.

Alkene $(C=C)$
Hydroxyl group (OH) Alkanol $(\overset{O}{\overset{\|}{C}}H)$

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

l = length of sample tube

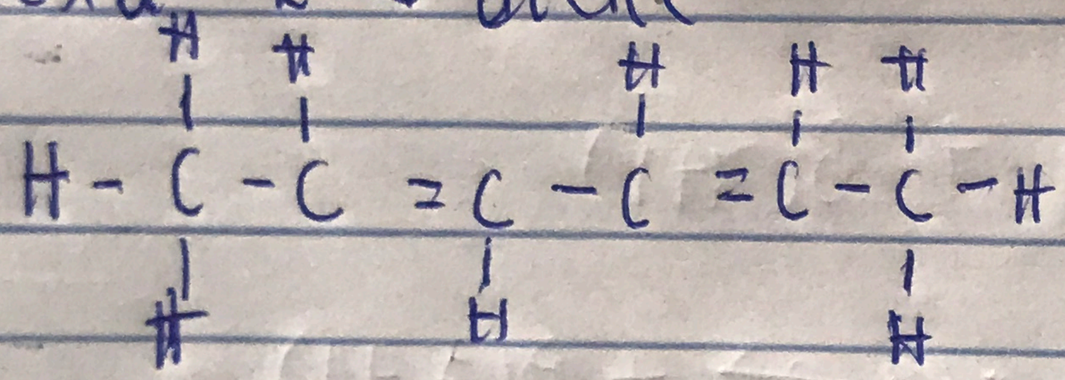
$C = \frac{\text{Mass}}{\text{Volume}}$ (g/dm) or (g/mol)

α = observed rotation

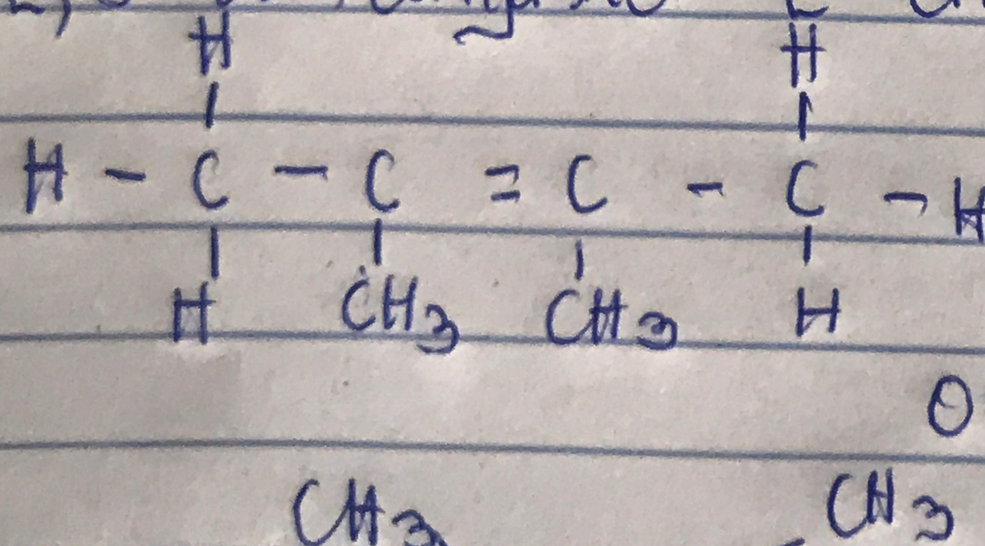
$S_r = \frac{1.0}{1.0 \times \left(\frac{0.856}{10}\right)}$

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

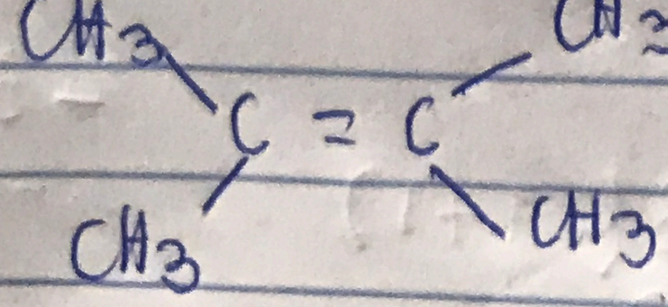
3i Hexa-2-4 diene



ii 2,3 Dimethyl hex-2-ene.



Or



(Neo butane)