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Course:-Chem 102 on stereochemistry and functional group

1)

(i)CH2=C(OH)HCHO

Functional groups: - OH (hydroxyl group)

Double bond chain (Alkene)

C=O (alkanal)

H

(ii)C6H5CH(NH2)COCH3

Functional groups: - phenyl group (C6H5) with double bonds

Amine (NH2)

Alkanone/ketone(C-R)

O

(iii)CH3C=CHCH(OH)CHO

Functional group:- Alkene(C=C)

Hydroxyl group (OH)

Alkanal(C=O)

H

2) Recall

[ᾳ]T = ᾳ

lXC

Where

L=length of tube

C= mass (g/dm) or (g/mol)

Volume

ᾳ= Observered rotation

Sr= 1.0

1.0X(0.856)

10

Sr= 1

0.0856 = 11.68

3)

(i) hexa-2,4-diene

H H H H H

H C C=C C = C C H

H H H

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

CH3 CH3

C=C

CH3 CH3