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COURSE: Chem102

MATRIC NO: 19/MHS02/085

DEPARTMENT: NURSING

(1) (i)

(a) Formyl group (Aldehyde) group (CHO)

(b) Hydroxyl group (OH)

(c) Alkene group ( double bond)

C= 0

(ii) (a) Keto group ( Carbonyl group)

(b) Amino group (NH2)

(c) Aromatic group (Phenyl group)

(iii) (a) Aldehyde group

(b) Hydroxyl group

(c) Double bond (Alkene group)

(2) Concentration (moldm-3) = conc. (gldm3)

Molar mass (g|mol)

Concentration in g|cm3 = concentration ( g|dm3)

 1000

 = 85.6 =0.0856g|cm3

 1000

Length of sample cell epolarimeter = 1.0dm

Specific rotation = observed rotation (degree)

 (concentration in g/cm3 ) x path length of sample cell in dm

Specific rotation of the sample = 1

= 11.680 g-1 cm3dm-1

0.0856 x 1

(3) (i) Hexa-2,4-diene

 CH3

H

C

CH3

C=CH-CH=C

trans Hexa –2, 4-diene

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

CH3

CH3

CH3

CH3

 C=C

Geometric isomers is not possible for 2,3-Dimethylbut-2-ene