EJUKONEMU BENITA

19/MHS10/001

OPTOMETRY

CHM102

1.

1. CH2C(OH)HCHO: Formyl group, group (aldehyde) group(CHO), Hydroxyl group, Alkene group.
2. C6H5CH(NH2)COCH3: Amines, carboxyl group, aromatic.
3. CH3C=CHCH(OH)CHO

2. molar concentration(mol/dm3) = mass concentration (g/dm3)

molar mass (g/mol)

(ᾳ)TI = ᾳ

C.L

OH OH OH O

Tartaric acid; \ | | /

C — C — C — C =C6H4O6

/ / | | \

O H H OH

Molar mass= 150g/mol

0.856g 10cm3

Xg 1000cm3

0.856 x 1000 =85.6g/dm3

10

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

1000

= 85.6 =0.0856g/cm3

10

(ᾳ)TI = ᾳ = 4.10 = 11.68

C.L 0.0856

3. H H

| |

1. H — C — C = C — C = C —C — H Hexa-2,4-diene

| | | | | |

H H H H H H

CH3 CH3  CH3 H

\ / \ /

C = C—C = C C = C — C = C

/ \ / \

H H H CH3

Cis- Trans-

H CH3 CH3 H CH3 CH3

| | | | \ /

1. H — C — C = C — C — H C = C

| | / \

H H CH3 CH3

2,3-dimethyl-but-2-ene

No geometric isomer