NAME: ECHEBIMA VICTORIA UCHENNA

DEPARTMENT: NURSING SCIENCE

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1.Name the functional groups present in each of the following molecules

(i) CH2=C(OH)HCHO

a. alkene(double bond)

b. alkanol

c. alkanal

(ii) C6H5CH(NH2)COCH3

a.amine

b. alkanone/ketone

c. phenyl group

(iii) CH3C=CHCH(OH)CHO

a. alkene

b. alkanol

c. alkanal

2.A 0.856 g sample of pure (2R, 3R)-tatrtaric acid was diluted to 10cm3 with water and placed in a 1.0 dm polarimeter tube. the observed rotation at 200 C was +1.00. Calculate the specific rotation of (2R, 3R)-tatrtaric acid.

Specific rotation= Observed rotation(degrees)

concentration g/cm3 x path lenght of sample in dm

Specific rotation= +1.0°

0.0856g/cm3 x 1dm

Specific rotation= 11.68°g-1cm3dm-1

3.Draw the possible geometric isomers(where possible) for each of the following compounds

a. Hexa-2,4-diene b. 2,3-dimethylbut-2-ene

ANSWER

