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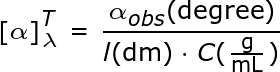
DEPT : NURSING

COURSE : CHM102 [GENERAL CHEMISTRY II]

ASSIGNMENT TITLE : STEREOCHEMISTRY AND FUNCTIONAL GROUP

1. Name the functional groups present in each of the following molecules
2. CH2=C(OH)HCHO – ( Aldehyde)
3. C6H5CH(NH2)COCH3 - ( Methoxy)
4. CH3C=CHCH(OH)CHO – (Aldehyde)
5. 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.

**Solution**

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WHERE [α]= specific rotation

λ = wavelength

α= observed rotation [20

c= concentration[]

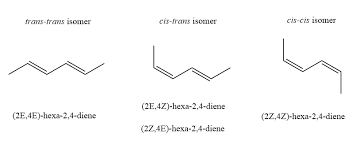
conversion of 10to ml=10ml

T=temperature

[α]=

Therefore specific rotation is 23.4

1. Draw the possible geometric isomers (where possible) for each of the following compounds
2. Hexa-2,4-diene



1. 2,3-Dimethylbut-2-ene

