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MATRIC NO: 19/MHS02/020

COLLEGE: MHS

DEPARTMENT: NURSING SCIENCE

COURSE CODE: CHM102

1. Name the functional group present in each of the following molecule;

ANSWERS

1. Aldehyde group (-CHO), Hydroxyl group(-OH) and Double bond
2. Phenyl group, Carbonyl group (-C=O) and Amine group (
3. −Hydroxyl group (-OH), Aldehyde group (-CHO), and Double bond.
4. A 0.865g sample of pure (2R, 3R) tatrtaric acid was diluted to 10 with water and placed in a 1.0dm polarimeter tube. The observed rotation at 20 was +1.0 calculate the specific rotation of (2R, 3R) tatrtaric acid.

ANSWER

Concentration==0.0865g/

Observed rotation=+1.0

Path length=1dm

Specific rotation==

Specific rotation =11.560

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

ANSWERS

1. 2, 3-Dimethylbut-2-ene, does not have a geometric isomer because there are two identical groups attached to the same carbon of the double bond.
2. Hexa-2,4-diene