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

(i) CH2=C(OH)HCHO (ii) C6H5CH(NH2)COCH3(iii) CH3C=CHCH(OH)CHO

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.

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

(i) Hexa-2,4-diene (ii) 2,3-Dimethylbut-2-ene

1. i.) Aldehyde functional group and hydroxyl functional group

ii.) Carbonyl group and amine

iii.) Hydroxyl group and aldehyde group

1. 0.856g to cm3= 0.856g/10cm3 = 0.0856g/cm3.

To find specific rotation= observed rotation (degrees) /conc.\* path length of sample cells in dm

=1.0/0.0856\*1 = 1.0/0.0856 = 11.68= 11.7^0g^\_1cm^3dm^-1.

Note: please sir/ma. I am extremely sorry for the late submissions of my assignments, it was because I was not aware and there some network issues.