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Chemistry Assignment

- 1)  $\text{CH}_2 = \text{C}(\text{OH})\text{CHO}$  → Aldehyde group ( $\text{C}-\text{CHO}$ ), hydroxyl group ( $\text{C}-\text{OH}$ ) and double bond.
- 2)  $\text{C}_6\text{H}_5\text{CH}(\text{NH}_2)\text{COCH}_3$  → phenyl group, carbonyl group ( $\text{C}=\text{O}$ ) and amine group ( $\text{C}-\text{NH}_2$ )
- 3)  $\text{CH}_3\text{C}=\text{CHCH}(\text{OH})\text{CHO}$  → hydroxyl group ( $\text{C}-\text{OH}$ ), aldehyde group ( $\text{C}-\text{CHO}$ ) and double bond.

2) A 0.856g sample of pure (2R, 3R) - tartaric acid was diluted to 10 cm<sup>3</sup> with water and placed in a 1 dm polarimeter tube. The observed rotation at 20 was +1.0°. Calculate the specific rotation of (2R, 3R) tartaric acid.

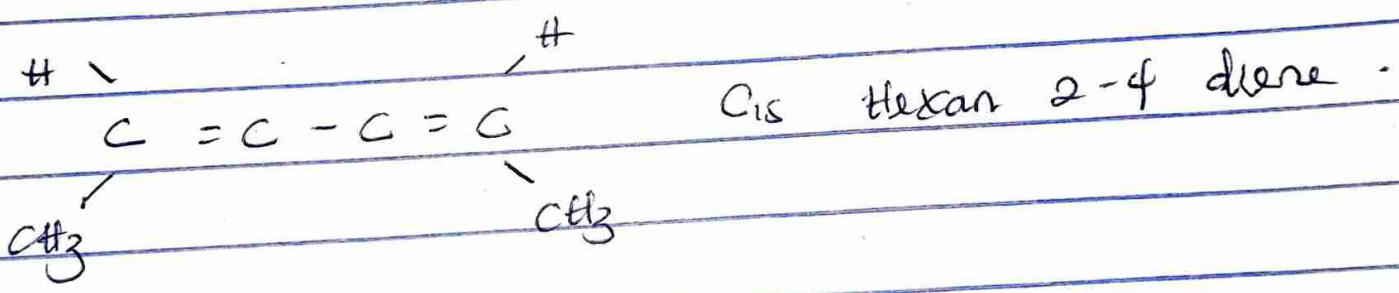
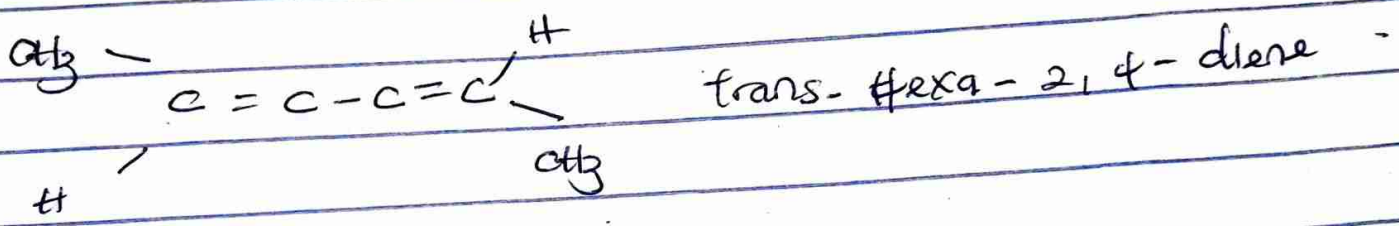
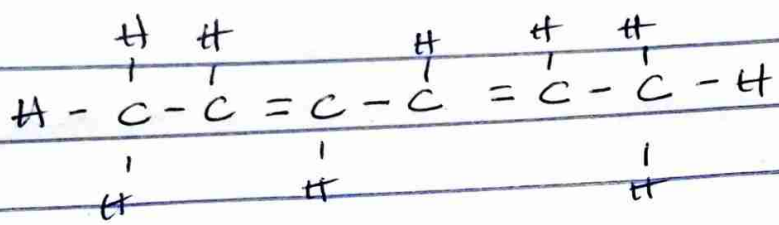
0.856g to cm<sup>3</sup> =  $0.856\text{g} / 10\text{cm}^3 = 0.0856\text{g/cm}^3$

to find specific rotation = observed rotation (degrees) / conc path length of sample cells in dm

~~Specific rotation = observed~~ =  $\frac{1}{0.0856\text{ (g/cm}^3\text{ (1dm))}}$

Specific rotation =  $11.68\text{ g}^{-1}\text{cm}^3\text{ dm}^{-1}$

3) Hexa - 2 - 4 diene .



2,3 - Dimethylbut - 2 - ene

