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 DEPARTMENT; PHARMACY  
 COURSE; CHEMISTRY  
 MATRIC NO; 19/MHS11/130

1. i.  $\text{CH}_2 = \text{C}(\text{OH})\text{HCHO}$  - Aldehydes group (CHO)
- ii.  $\text{C}_6\text{H}_5\text{CH}(\text{NH}_2)\text{COCH}_3$  - Amine group ( $\text{NH}_2$ )
- iii.  $\text{CH}_3\text{C}-\text{CHCH}(\text{OH})\text{CHO}$  - Aldehydes group

$$2. \text{Conc. (mol/dm}^3) = \frac{\text{conc. (g / dm)}}{\text{molarmass (g / mol)}}$$

Tartaric acid =  $\text{C}_4\text{H}_6\text{O}_6$

Molar mass = 150g/mol

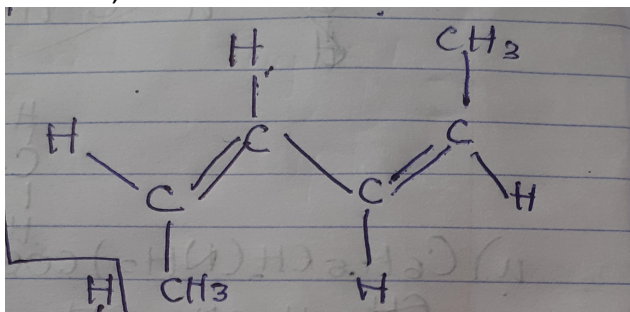
$$0.856\text{g} \quad \frac{\quad}{10\text{cm}^3}$$

$$X\text{g} \quad \frac{\quad}{1000\text{cm}^3}$$

$$\text{Conc. in g/cm}^3 = \frac{\text{conc (g/dm}^3)}{1000} = \frac{85.6}{1000} = 0.0856\text{g/cm}^3$$

$$[\alpha] = \frac{\alpha}{\text{C.l}} = \frac{+1.0}{0.856 \times 1} = 11.68^\circ$$

3. I. Hexa-2,4-diene



- II. Dimethylbut-2-ene

