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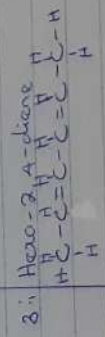
CHM 100
ASSIGNMENT

- i. $\text{CH}_2=\text{C}(\text{OH})\text{HC}(\text{OH})$ - Ethene, hydroxy, carbonyl (Aldehyde)
- ii. $\text{C}_6\text{H}_5\text{CH}(\text{OH})\text{COCH}_3$ - Aromatics, Carbonyl (Ketones)
- iii. $\text{CH}_3\text{C}=\text{CHCH}(\text{OH})\text{CHO}$ - Ethene, hydroxy, carbonyl (Aldehyde)

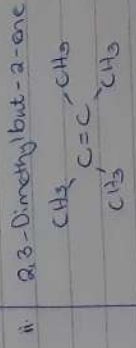
2. $\text{Conc. in g/dm}^3 = \frac{0.856\text{g}}{10\text{cm}^3}$
 $= 0.0856\text{g/cm}^3$

Observed rotation = 1.0°
 Path length = 1dm

Specific Rotation = $\frac{\text{Observed Rotation}}{\text{Conc. (g/cm}^3) \times \text{Path length}}$
 $= \frac{1.0}{0.0856 \times 1}$
 $= +11.7\text{g}^{-1}\text{cm}^2\text{dm}^{-1}$



There is no possible geometric isomer



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