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Medicine and Surgery

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CHM102 Assignment

1. i) $\text{CH}_2 = \text{C}(\text{OH})\text{HCHO}$ - Ethene, hydroxy, carbonyl (Aldehyde)
ii) $\text{C}_6\text{H}_5\text{C}(\text{NH}_2)\text{COCH}_3$ - Amine, Ketone
iii) $\text{CH}_3\text{C} = \text{CHCH}(\text{OH})\text{CHO}$ - Ethene, hydroxy, Aldehyde

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

$= 0.0856\text{g/cm}^3$

observed rotation = 1.0°

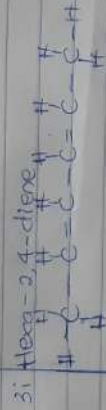
Path length = 1dm

Specific rotation = $\frac{\text{observed rotation}}{\text{conc. (g/cm}^3) \times \text{path length}}$

$= \frac{1.0}{0.0856 \times 1}$

$= +11.7\text{g}^{-1}\text{cm}^2\text{dm}^{-1}$

$= +11.7\text{g}^{-1}\text{cm}^2\text{dm}^{-1}$



There is no possible geometric isomer

- ii) 2,3-Dimethylbut-2-ene



There is no possible geometric isomer