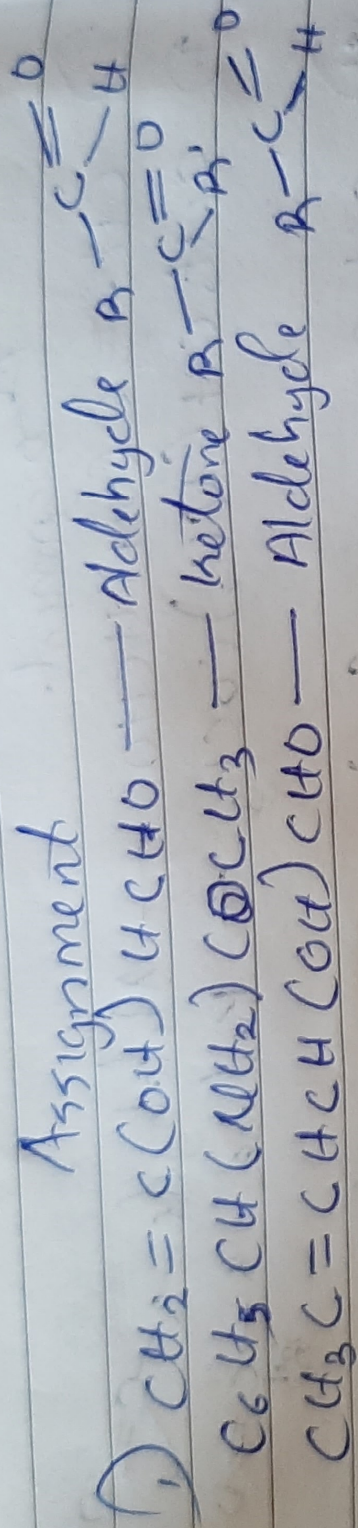


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 Matric No: 19/111501/104
 Course Code: CHM 102

Assignment



2) observed rotation = $+1.0^\circ$

Concentration $\frac{\text{g}}{\text{cm}^3} = \frac{0.856}{10} = 0.0856 \text{ g/cm}^3$

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

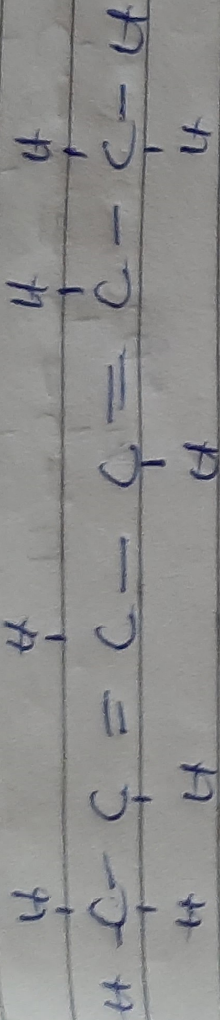
= $\frac{+1.0^\circ}{0.0856 \times 1}$

= $+11.68^\circ \text{ g}^{-1} \text{ cm}^3 \text{ dm}^{-1}$

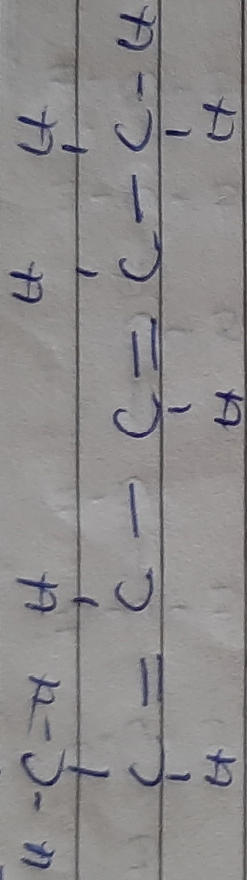
+11.68^\circ \text{ g}^{-1} \text{ cm}^3 \text{ dm}^{-1}

3

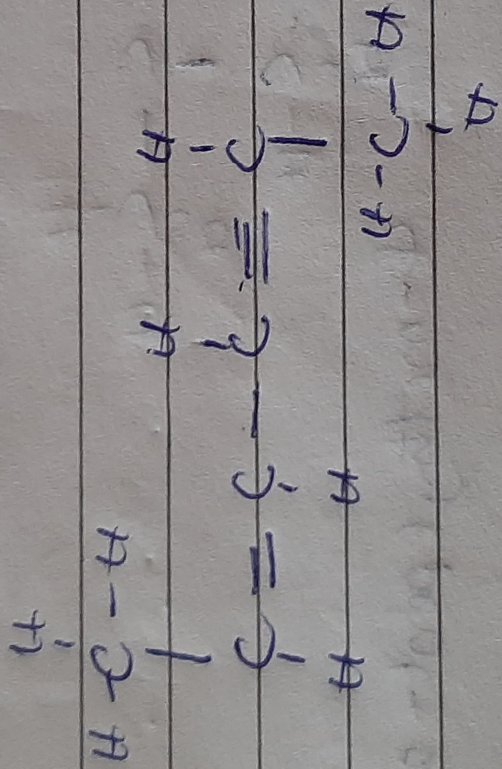
Hexa-2,4-diene



Isomers

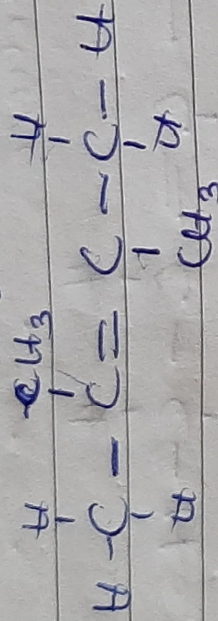


Cis, trans hexa-2,4-diene

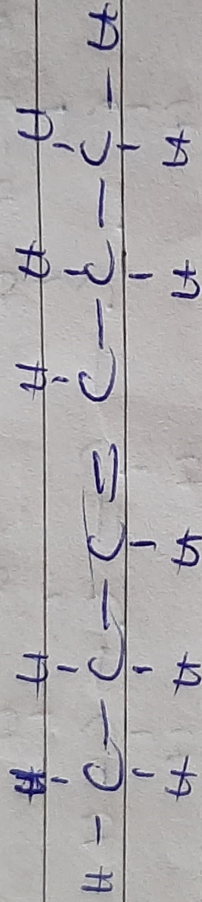


Cis, Cis Hexa-2,4-diene

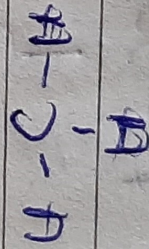
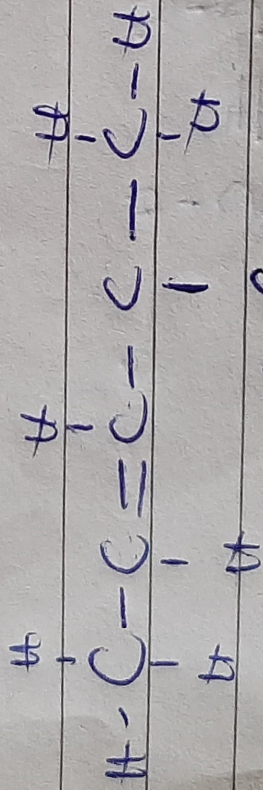
2,3-Dimethylbut-2-ene



Isomers



Hex-3-ene



4-methylpent-2-ene