

2. Recall:

$$[\alpha]_{\lambda}^T = \frac{\alpha}{l \times c}$$

Therefore:

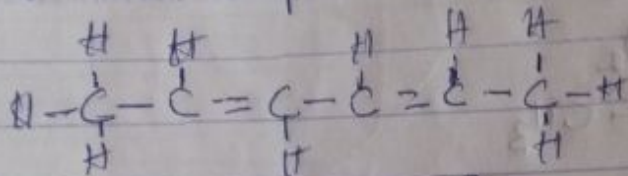
$$c = \frac{\text{Mass}}{\text{Volume}} = \frac{g}{\text{dm}^3} = \left(\frac{g}{\text{dm}^3} \right) \text{ or } \left(\frac{g}{\text{mol}} \right)$$

α = Observed Rotation

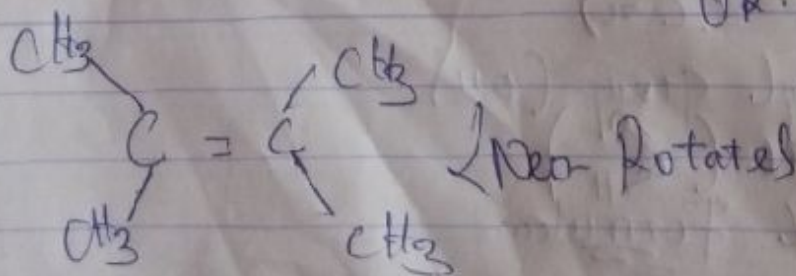
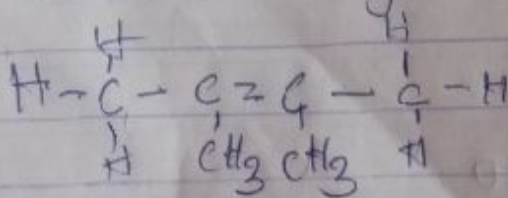
$$S_8 = \frac{1.0}{1.0 \times \left(\frac{0.856}{10} \right)}$$

$$S = \frac{1}{0.0856} = 11.6811$$

8. (1) Hexa-2,4-diene



(2) 2,3-dimethyl But-2-ene

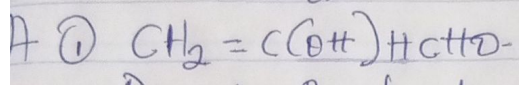


OR.

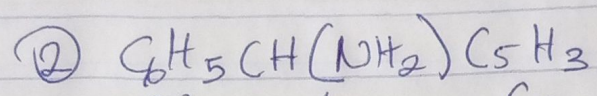
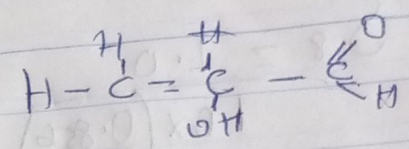
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 Department: Nursing.
 College: MHS.
 Date: 3/05/2020.

Answer

Structural Formula

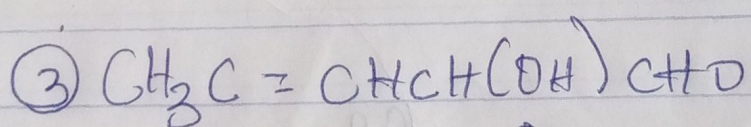
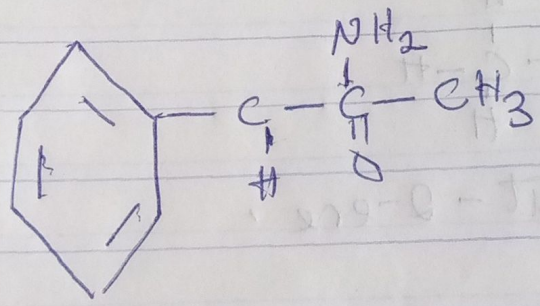


- * Double Bond chain. (=)
- * Hydroxyl groups (OH)
- * Alkanols ($\begin{array}{c} \text{O} \\ \parallel \\ \text{C}-\text{H} \end{array}$)



- * Phenyl group (C_6H_5) with Double Bond.
- * Amine
- * Alkanone / Ketone ($\begin{array}{c} \text{O} \\ \parallel \\ \text{C}-\text{R} \end{array}$)

Structural Formula



- * Alkene ($\text{C}=\text{C}$)
- * Hydroxyl group (OH)
- * Alkanol ($\begin{array}{c} \text{O} \\ \parallel \\ \text{C}-\text{H} \end{array}$)

Structural Formula

