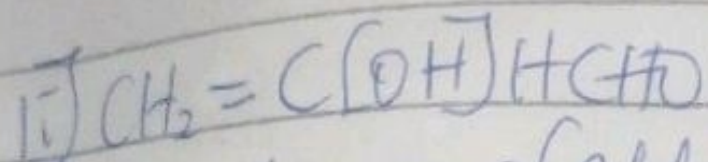


Name - Eweye Ruth Ehinome

College/Department - MHS/MLS

Matric Number - 19/MHS06/014

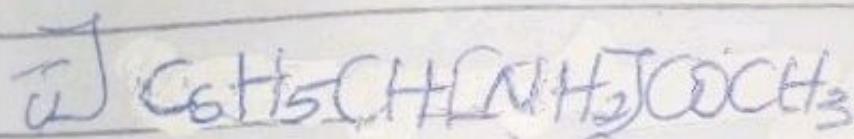
Course Code - CHM 102



a) Formyl group (Aldehyde group) $[\text{CHO}]$

b) Hydroxyl group $[\text{OH}]$

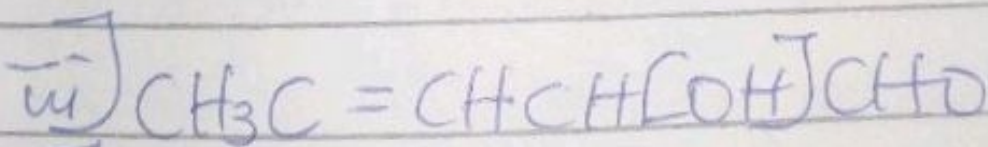
c) Alkene group (double bond)



a) Ketone group (Carbonyl group) $\text{C}=\text{O}$

b) Amine group $-\text{NH}_2$

c) Aromatic group (phenyl)



a) Aldehyde group

b) Hydroxyl group

c) Double bond (Alkene group)

$$2) [\alpha]_{\lambda}^T = \frac{\alpha}{L \times C}$$

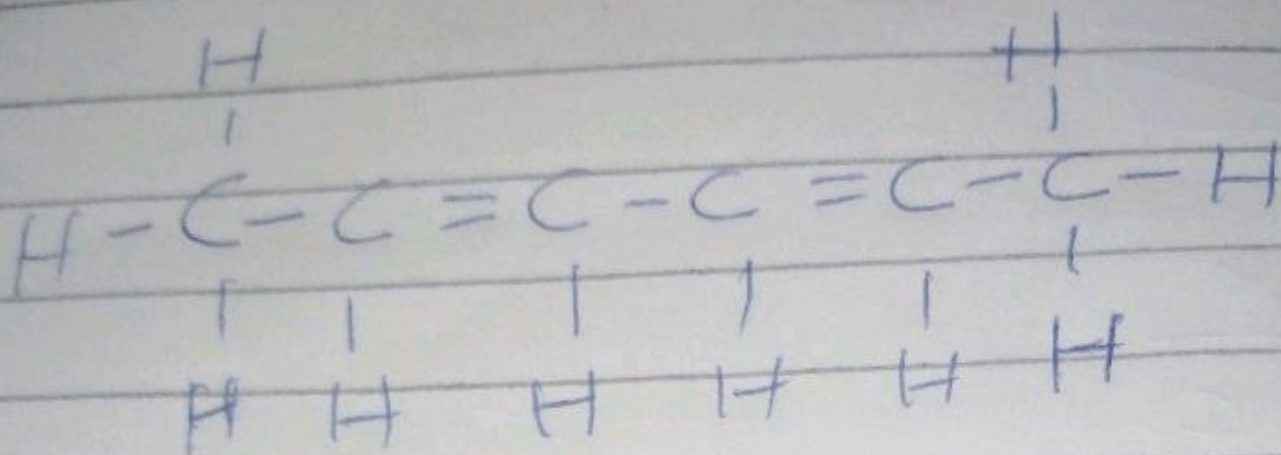
L = length of sample tube

C = $\frac{\text{mass}}{\text{volume}}$, α - observed rotation at 20°C

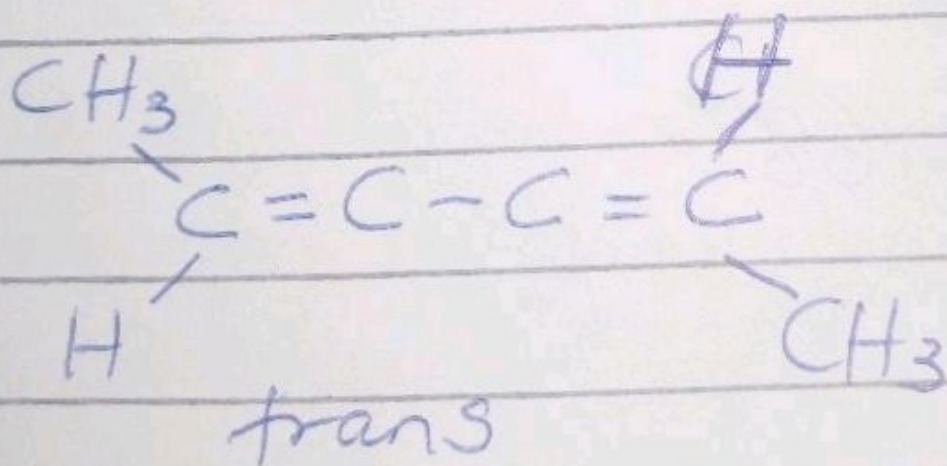
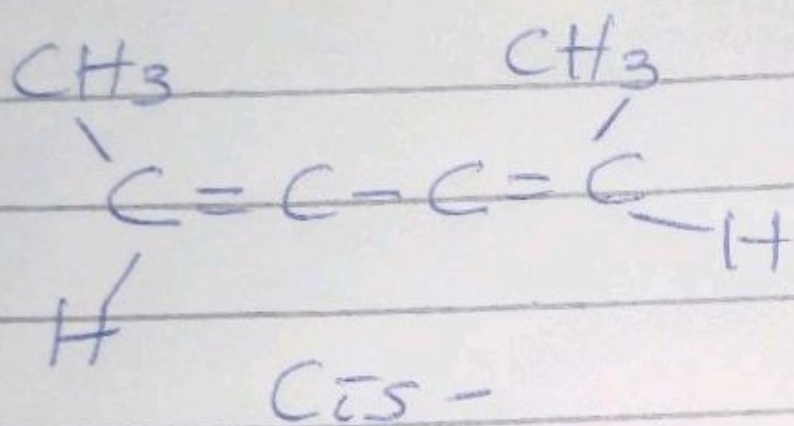
$$S_r = \frac{+1.0}{1.0 \times \left[\frac{0.856}{10} \right]}$$

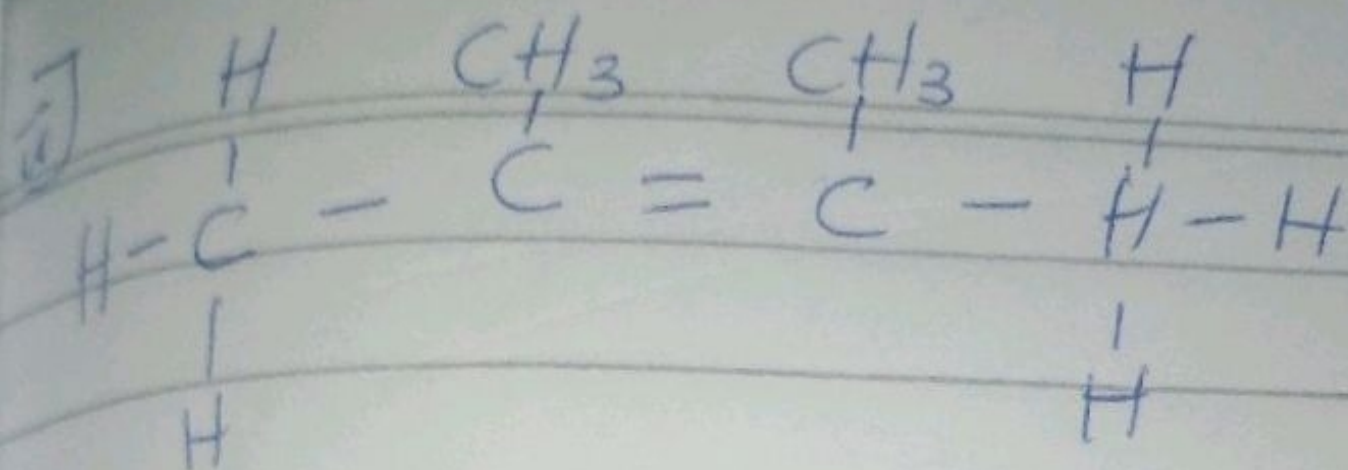
$$= \frac{1}{0.0856} = 11.68^{\circ}$$

3)

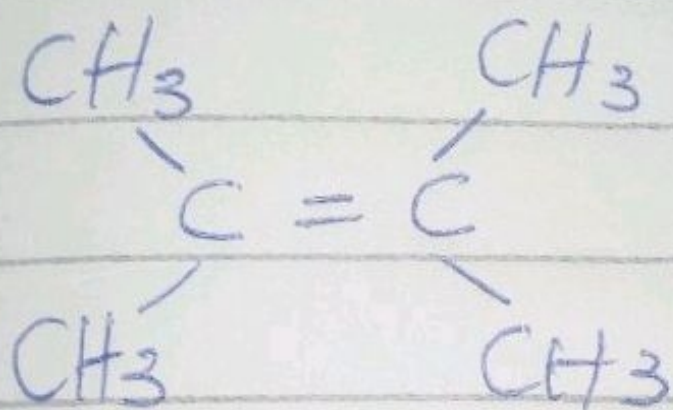


Hexa-2,4-diene





2,3-dimethylbut-2-ene



There's no geometric isomer