

Soyemi Oriola

19/ENG05/060

## Mechatronics Engineering

(CHEM 102)

(I) Formyl group (Aldehyde) group ( $\text{CHO}$ )

(b) Hydroxyl group ( $\text{OH}$ )

(c) Alkene group (double bond)

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

(b) Amino group ( $\text{NH}_2$ )

(c) Phenyl group

(III) Aldehyde group

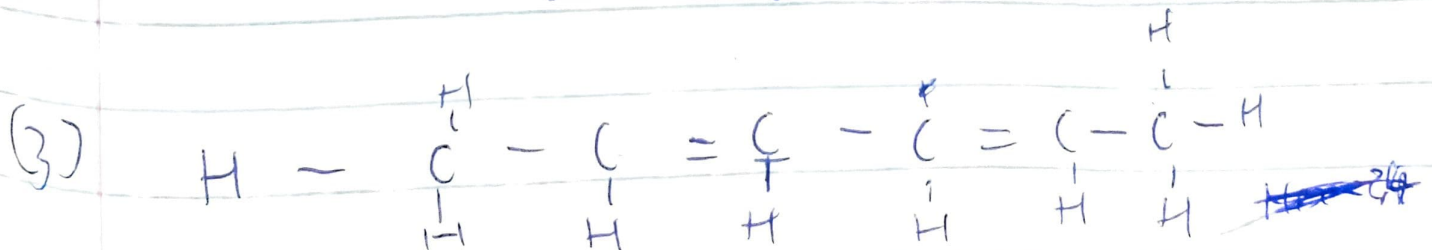
(b) Hydroxyl group

(c) double bond (Alkene group)

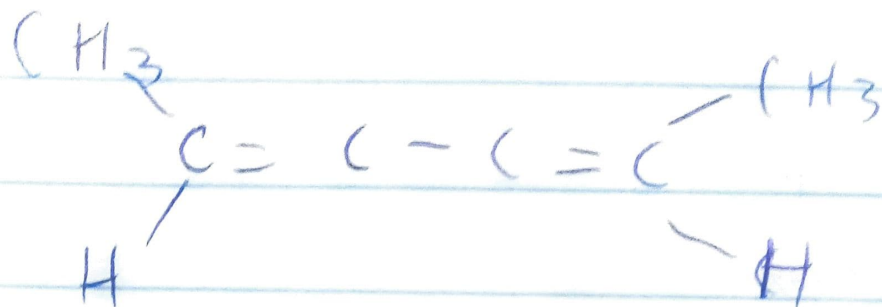
$$(2) [\alpha]_D^{25} = \frac{\alpha}{cl}; \alpha = ~~11.68~~, +1.0^\circ$$

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

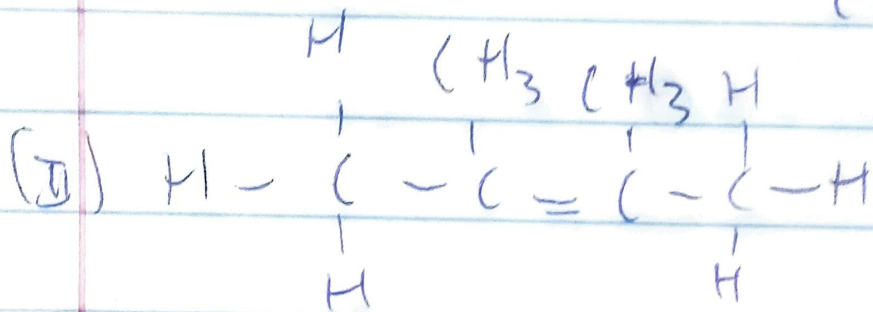
$$[\alpha]_D^{25} = \frac{+1.0}{0.0856} = 11.68^\circ$$



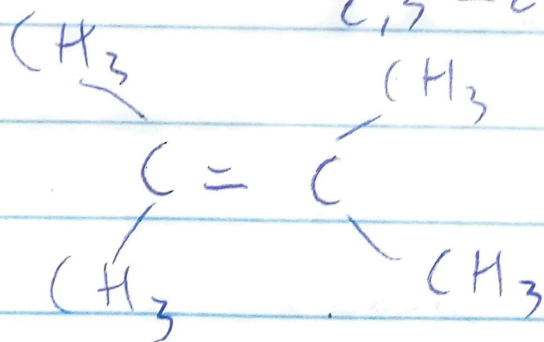
Hex-2,4-diene



Cis-hex-2,4-diene



2,3-dimethyl but-2-ene



No geometric isomer