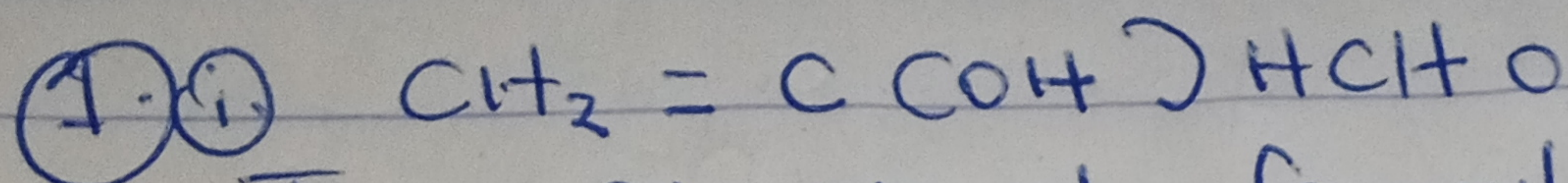
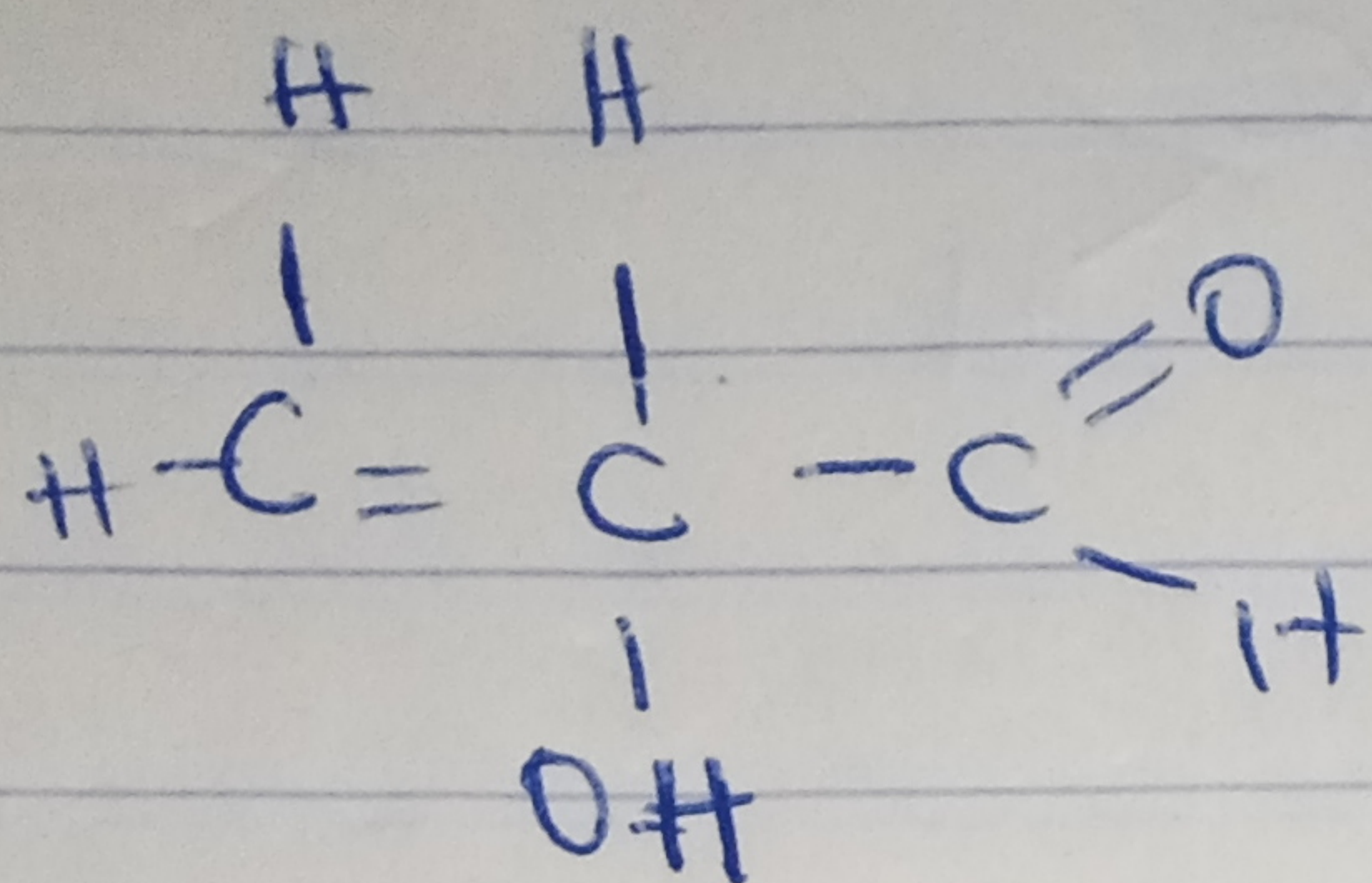


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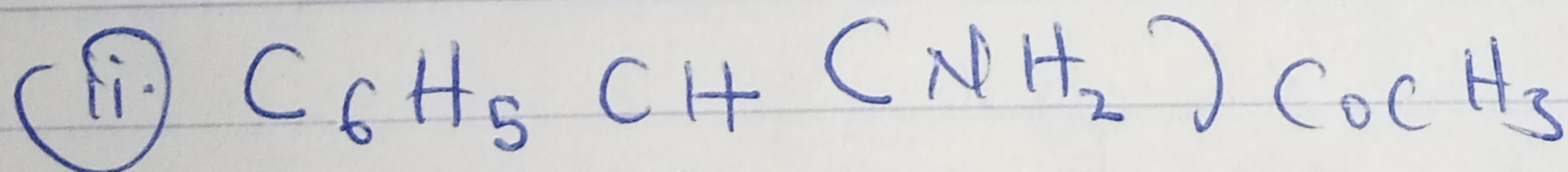


The structural formula is:

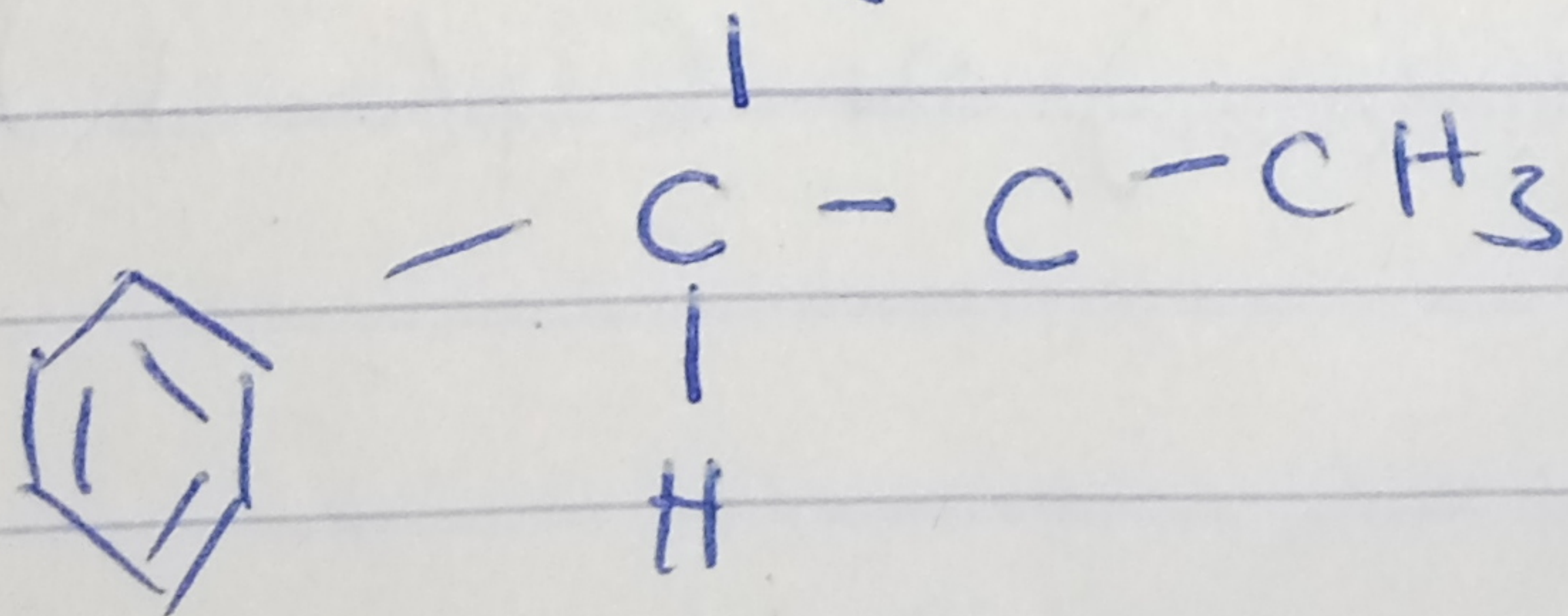


functional present are.

- Double bond chain = (Alkene)
- -OH (hydroxyl group)
- $\begin{array}{c} \text{O} \\ || \\ \text{C} \\ | \\ \text{H} \end{array}$ (aldehyde)

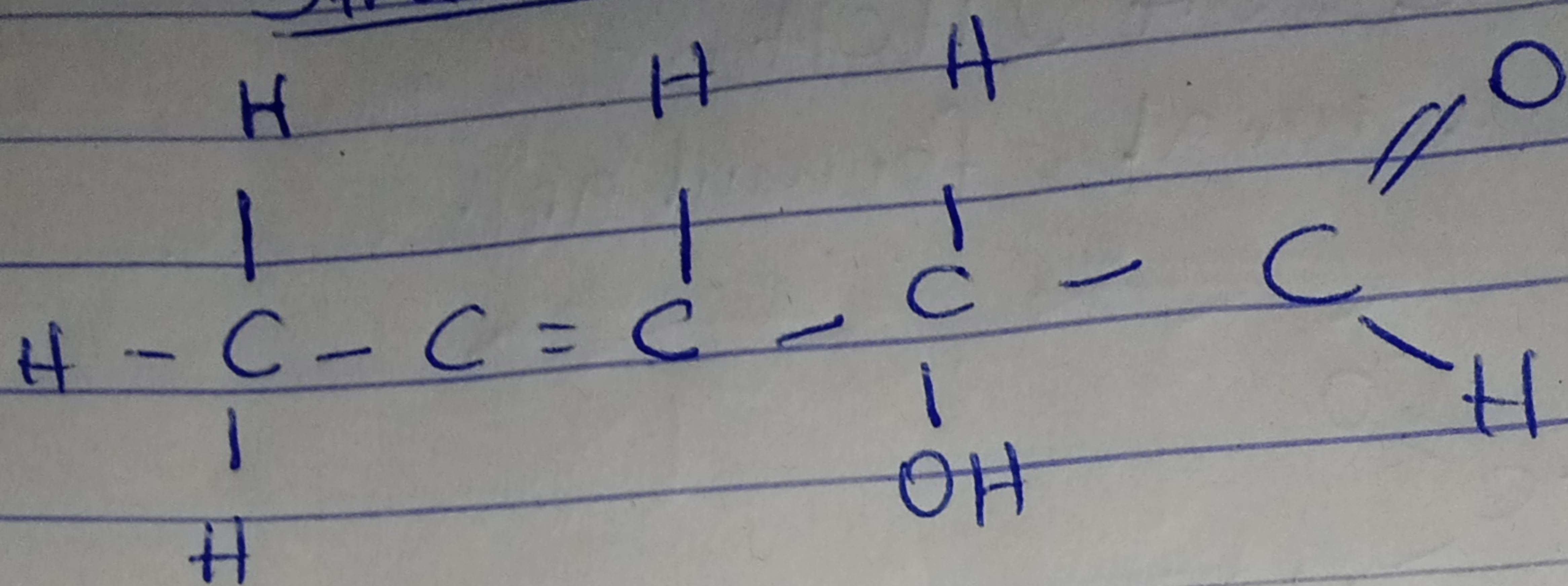
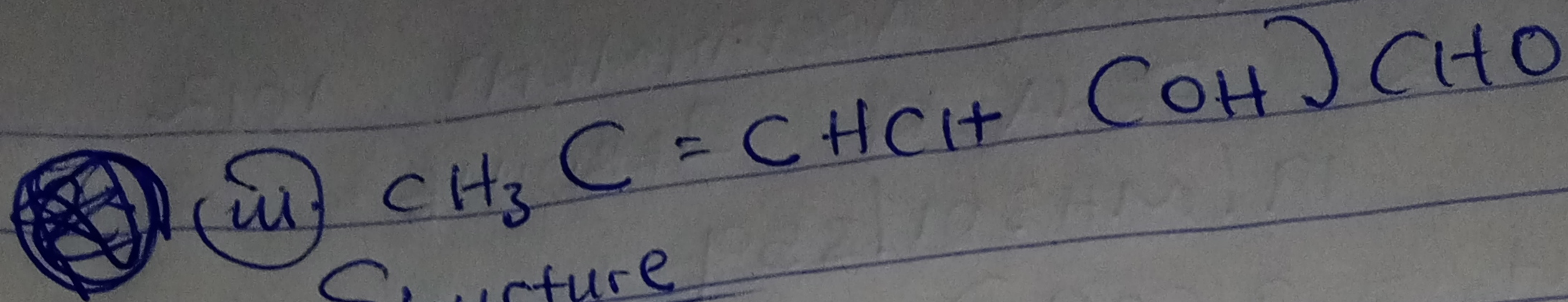


Structure; NH_2



functional present

- Phenyl group (C_6H_5) with double bonds.
- Alkanone / ketone $\begin{array}{c} \text{C}-\text{R} \\ || \\ \text{O} \end{array}$



Functional Present

- Alkene ($\text{C}=\text{C}$)

- Hydroxyl group (OH)

- Alkanol ($\text{C}-\text{OH}$)

(2) Recall;

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

where

l = length of sample tube

c = $\frac{\text{mass}}{\text{volume}}$ (g/dm^3) or (g/mol)

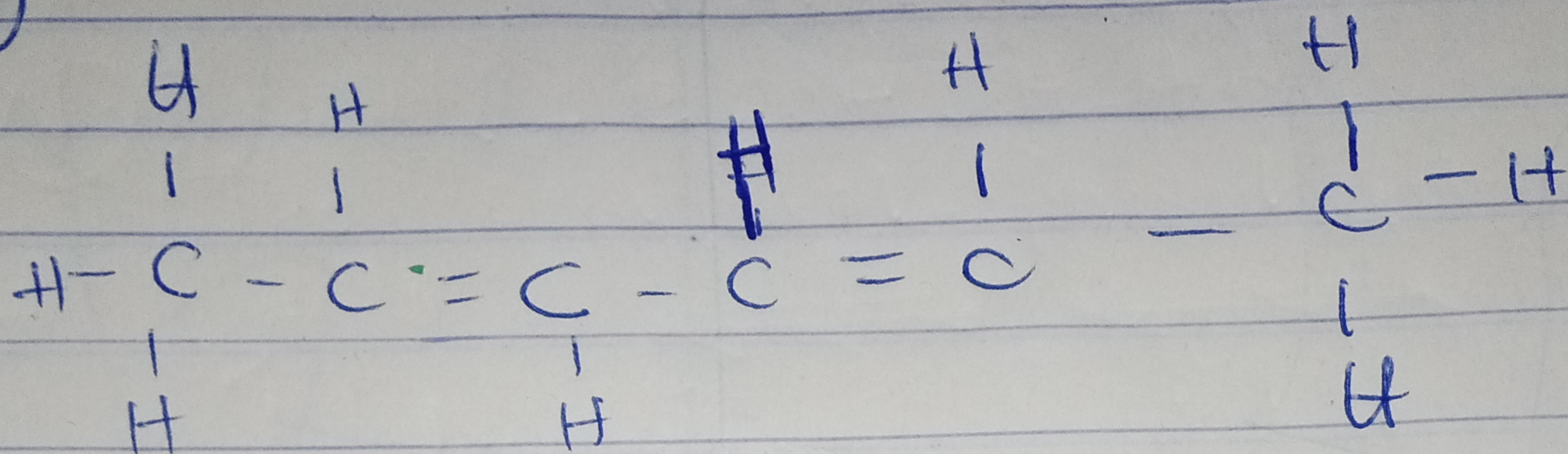
α = Observed rotation,

$$S_r = \frac{1.0}{1.0 \times \left(\frac{0.856}{9}\right)}$$

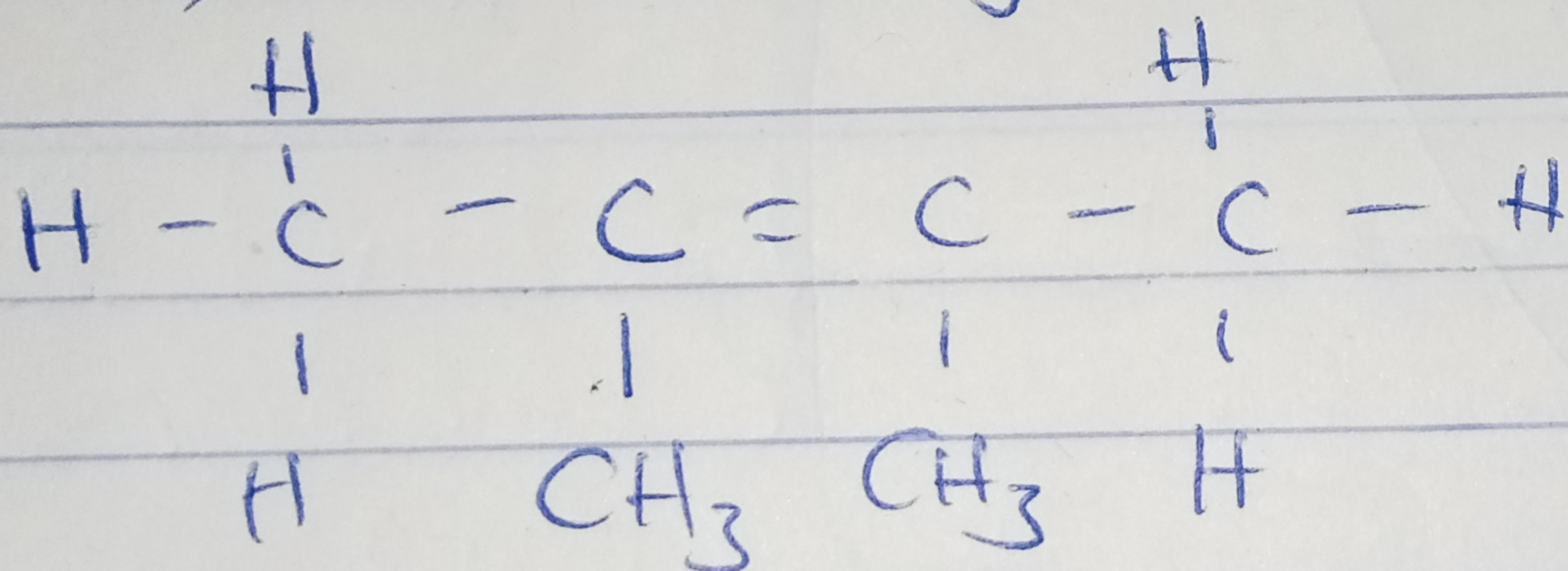
$$S_r = \frac{1}{0.0856}$$

$$= \frac{9}{0.856} = 11.68$$

(i) Hexa-2-4 diene



(ii) 2,3-Dimethyl but-2-ene



OR

