

Name: UDEALA FAVOUR CHINZCHEREM

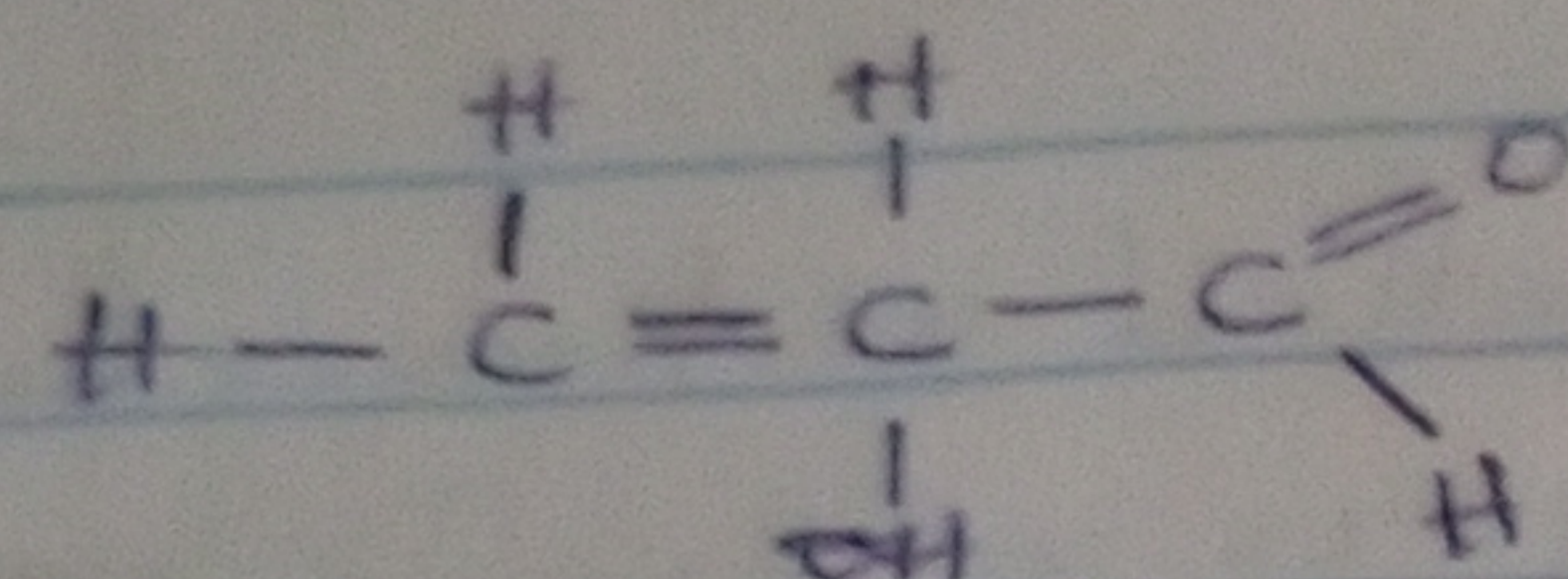
Matric no: 19/mh301/409

Dept: MBBS

Assignment

1. $\text{CH}_2 = \text{C}(\text{OH})(\text{CHO})$

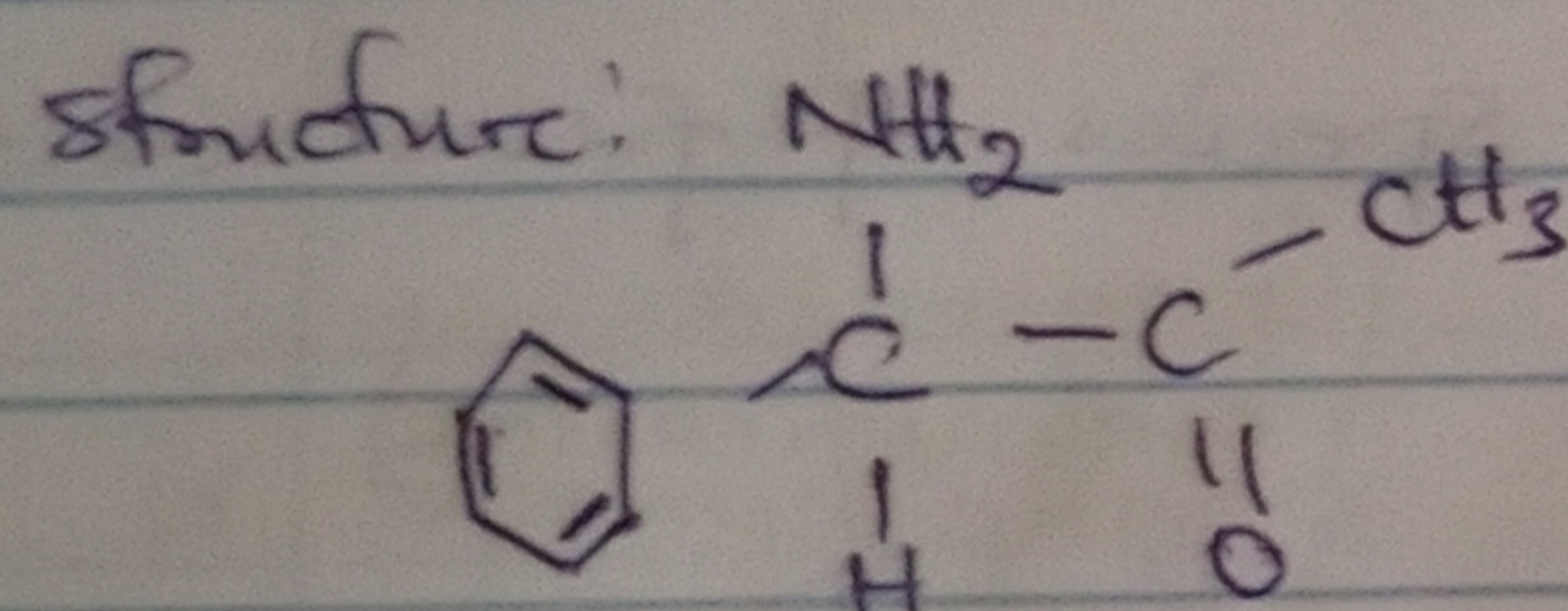
The structural formula:



Functional present are:

- Double bond chain - (Alkene)
- OH (hydroxyl group)
- $\text{C}=\text{O}$ (Alkanol)

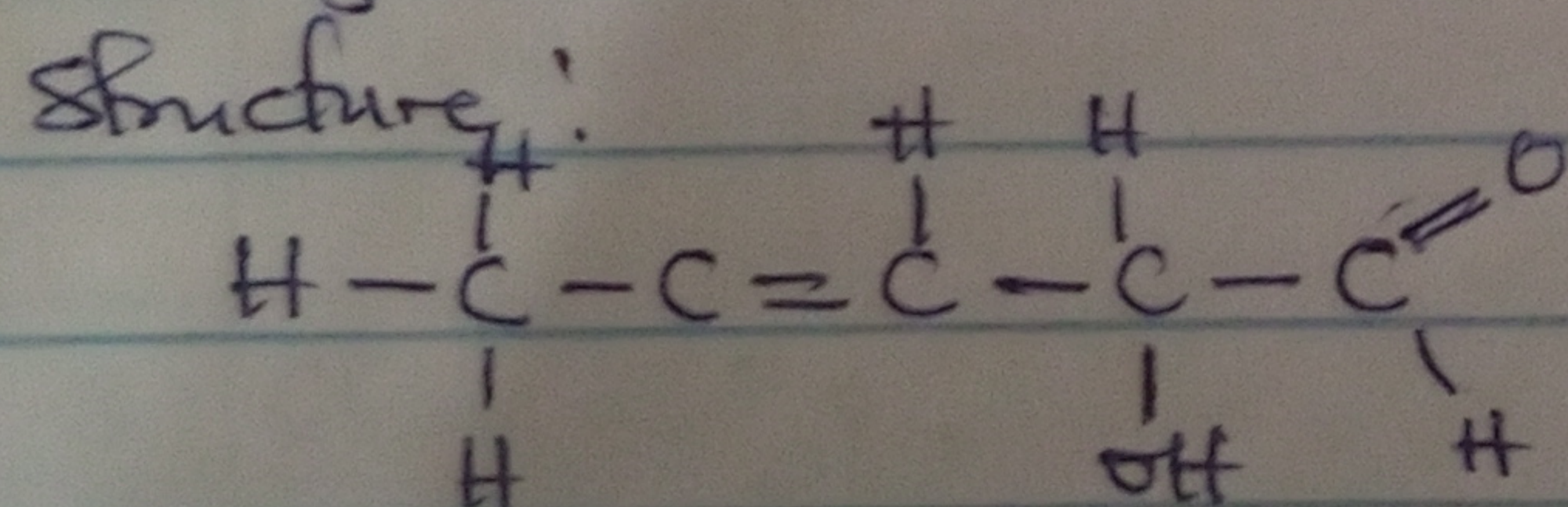
ii. $\text{C}_6\text{H}_5\text{CH}(\text{NH}_2)\text{COCH}_3$



Functional present:

- Phenyl group (C_6H_5) with double bonds.
- Amine.
- Alkanone / ketone ($\text{C}=\text{O}$)

iii. $\text{CH}_3\text{C}=\text{CHCH}(\text{OH})\text{CHO}$



Functional present

- Alkene ($\text{C}=\text{C}$)
- Hydroxyl group (OH)
- Alkanol ($\text{C}=\text{O}$)

$$2. [\alpha]_D^{25} = \frac{\alpha}{l \times c}$$

where

l = length of sample

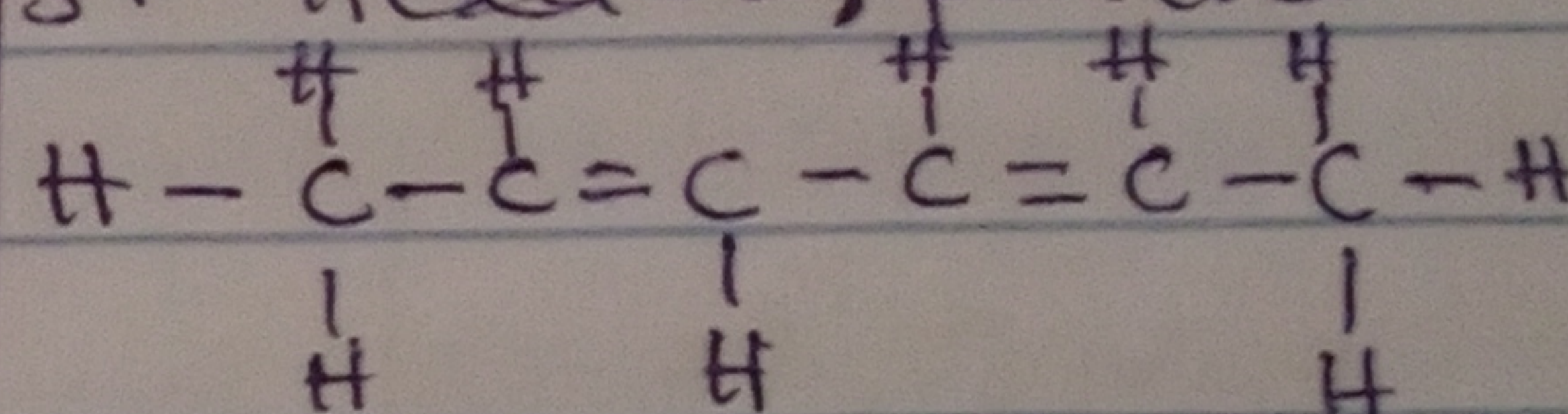
c = $\frac{\text{mass}}{\text{volume}}$ (g/dm) or (g/mol)

α = observed rotation.

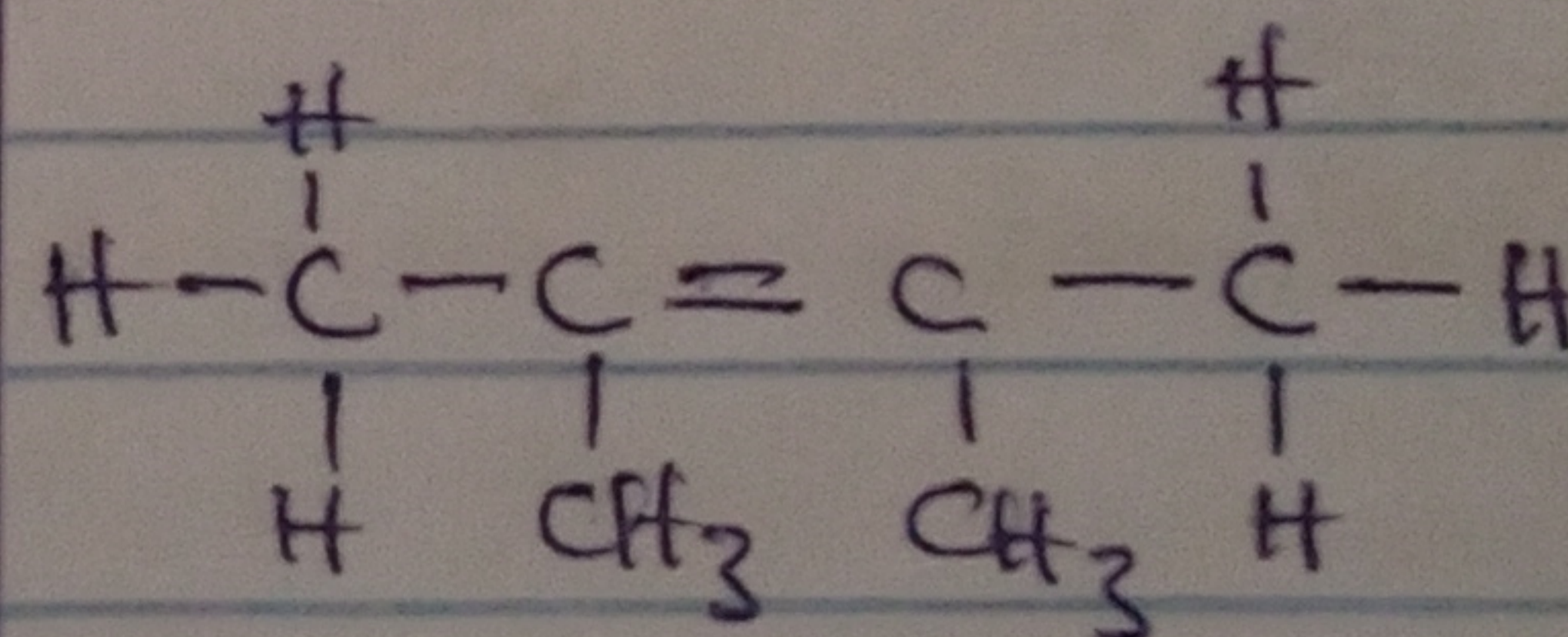
$$S_x = \frac{1.0}{1.0 \times \left(\frac{0.856}{10} \right)}$$

$$S_x = \frac{1}{0.0856} = 11.68$$

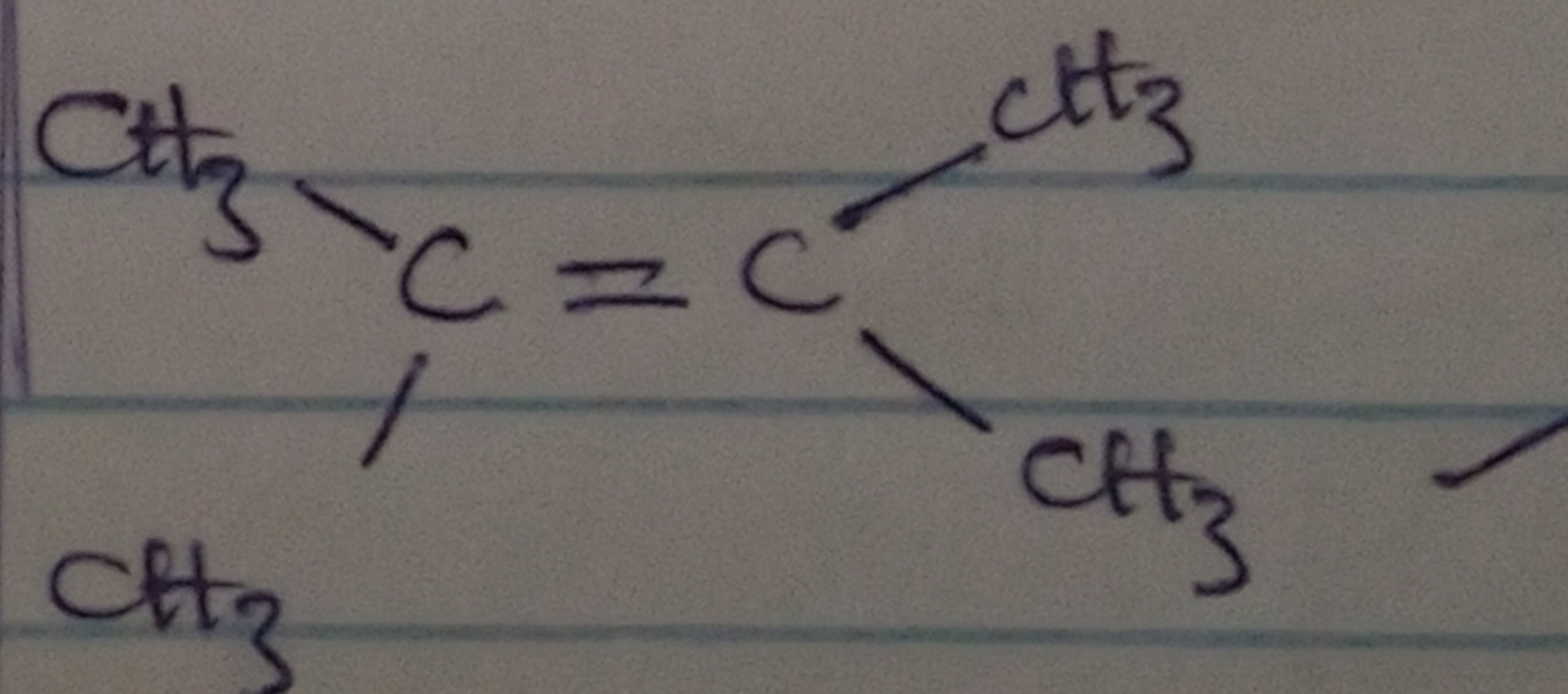
3. i. Hexa-2,4-diene



ii. 2,3-Dimethylbut-2-ene.



OR



(Geometric isomers)