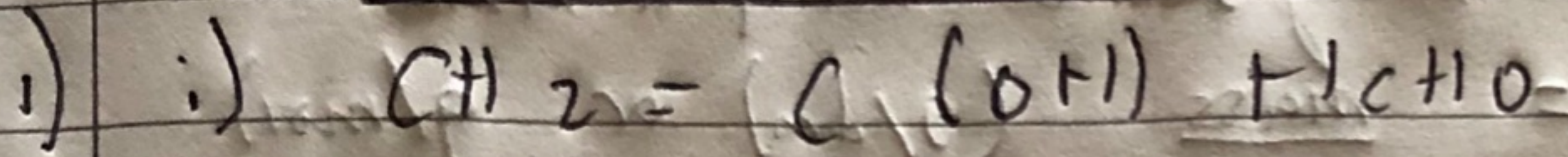


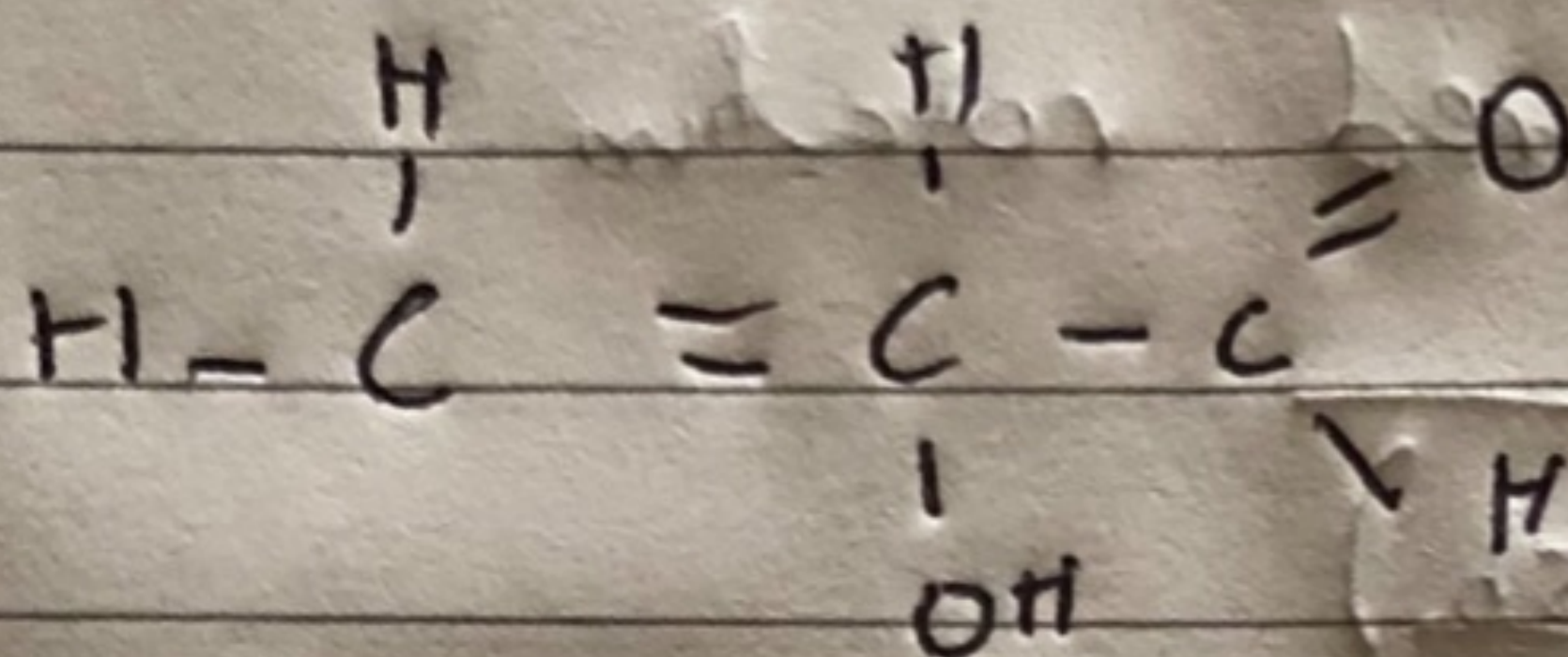
EREHI ISHIAH UREDO

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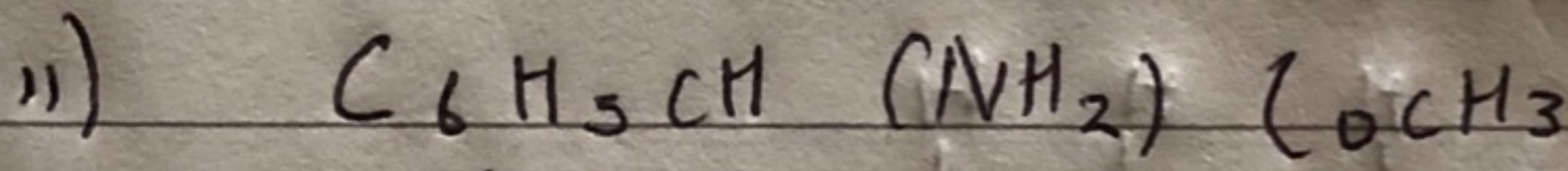


The structural formula:

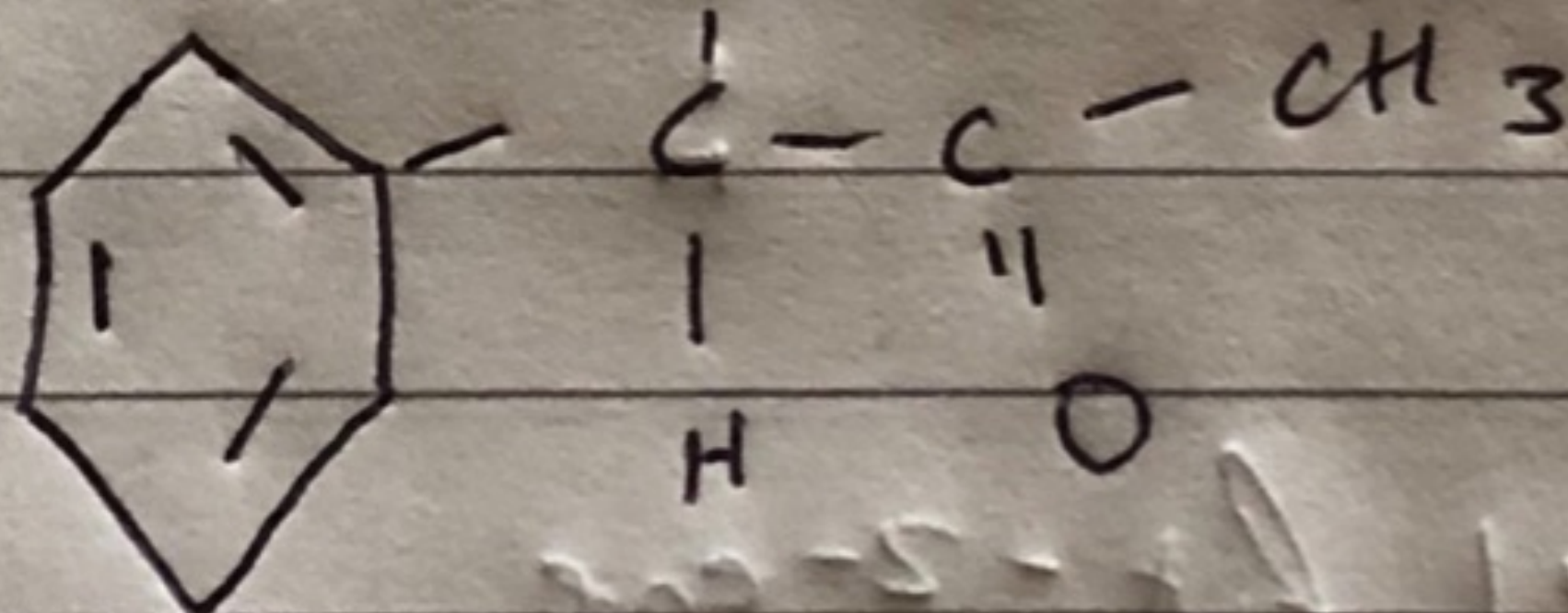


functions present are

- Double bond chain = (Alkene)
- OH (hydroxyl group)
- $\overset{O}{\parallel}C$ (aldehyde)

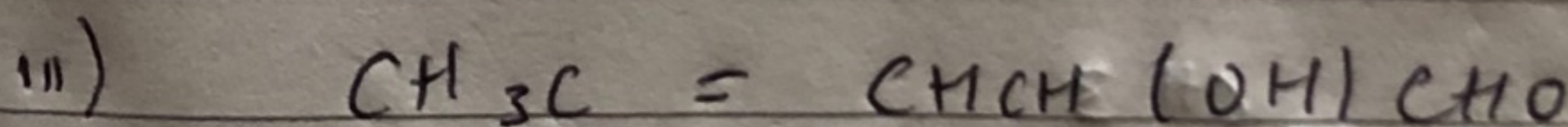


structure:

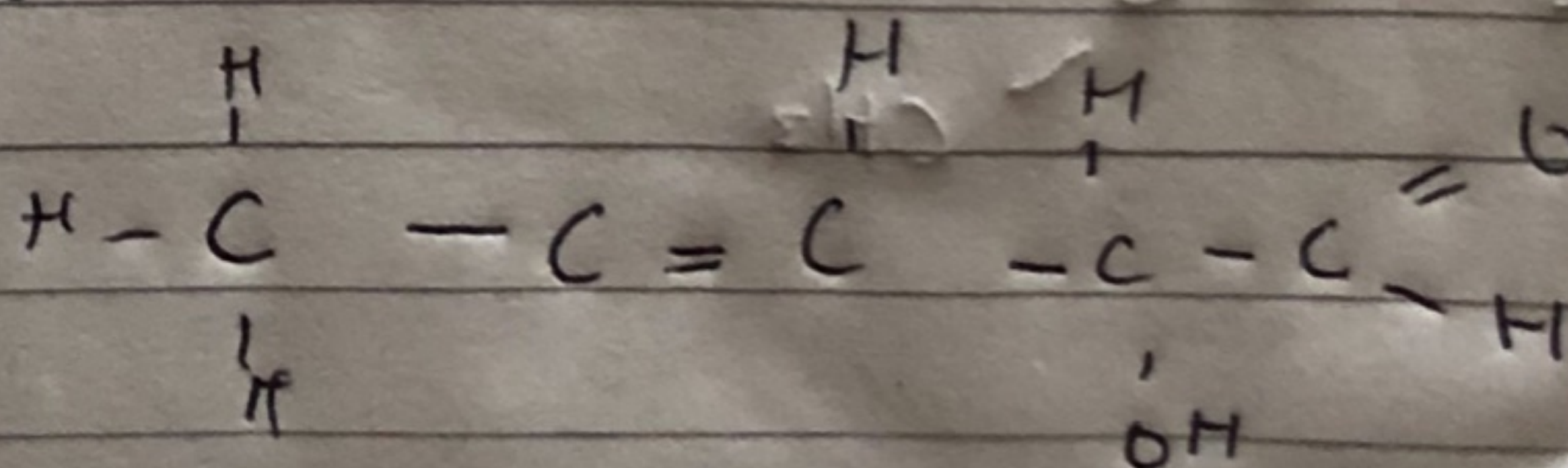


functional present

- phenyl group (C_6H_5) with double bond
- Amine
- Alkanone / ketone ($C=O$)



structure



functional present

i) Alkene ($C=C$)

ii) Hydroxyl group (OH)

iii) Alkanol

2 Recall

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

where l = length of sample tube

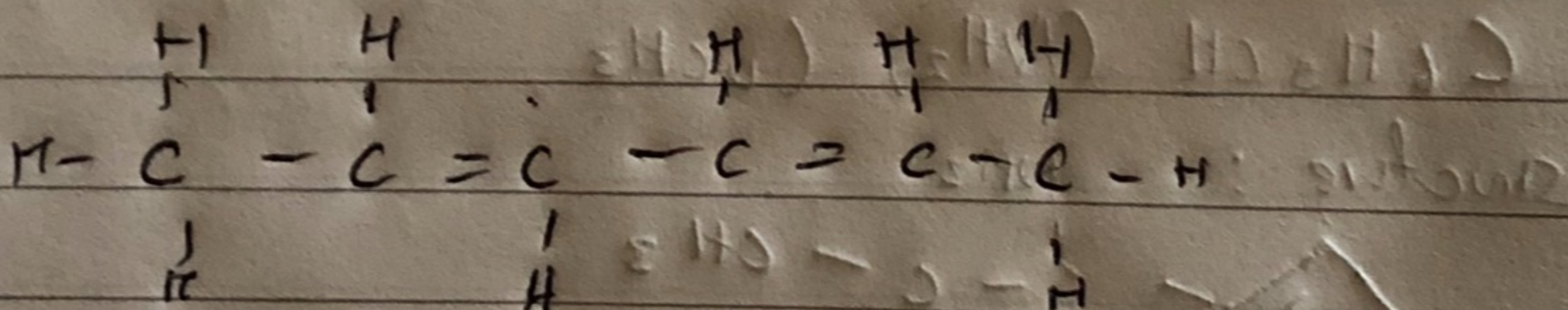
c = $\frac{\text{mass}}{\text{volume}}$ (g/dm³) or (g/ml)

α = observed rotation

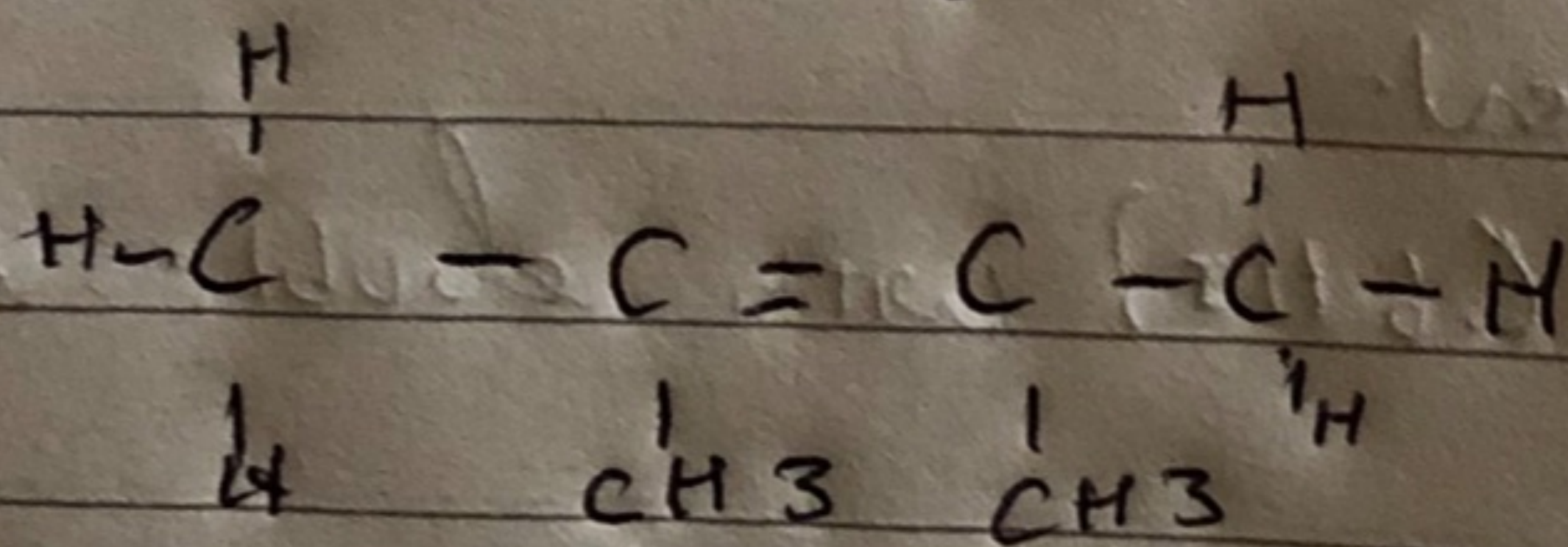
$$S_x = \frac{1.0}{1.6 \times (0.856)}$$

$$S_x = \frac{1.0}{0.0856} = 11.68$$

3 i) Hexa-2,4-diene



iii) 2,3-Dimethylbut-2-ene



OR

