

i) ~~alkene~~ alkene functional group =
~~alcohol~~ hydroxyl functional group -OH
 aldehyde functional group $\begin{matrix} R-C=O \\ | \\ H \end{matrix}$

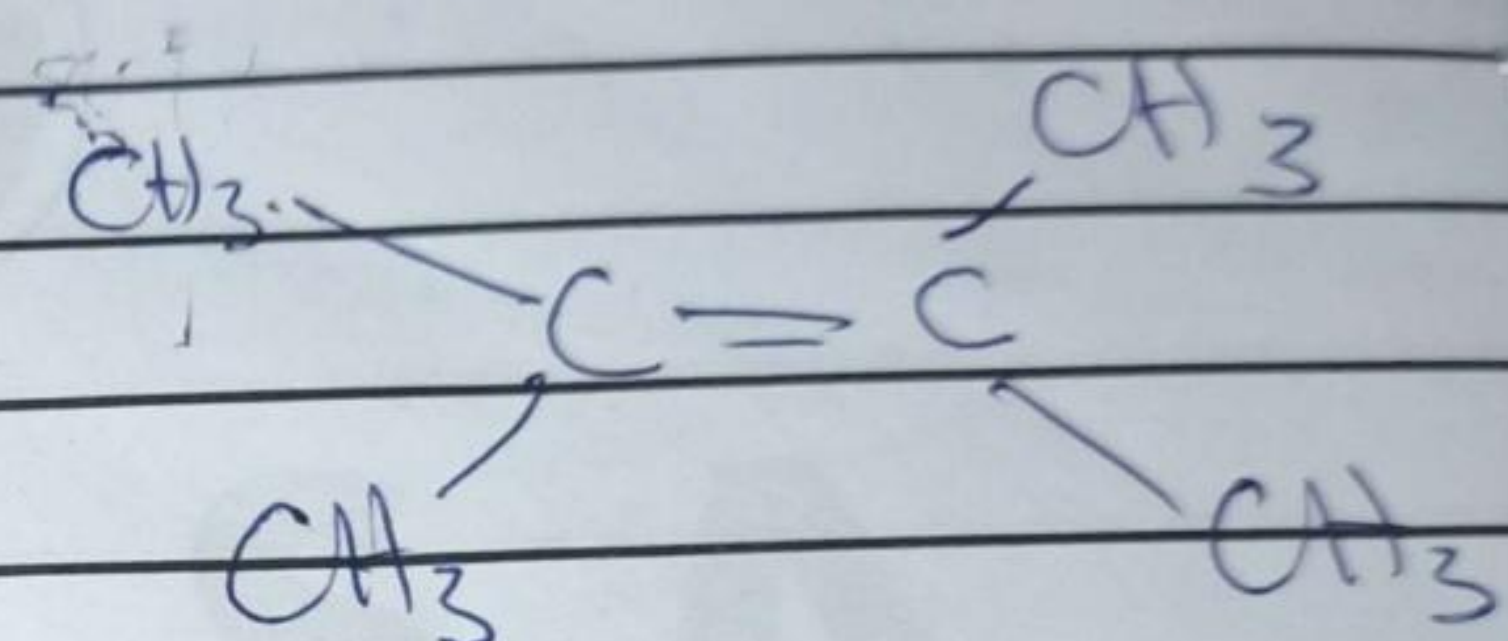
ii) amine functional group $\begin{matrix} R \\ | \\ R-C=O \end{matrix}$
~~al~~ ketone functional group $R-C=O$
 phenoyl group ~~to~~ (C₆H₅)

iii) Alkene (C=C)
 Hydroxyl (OH)

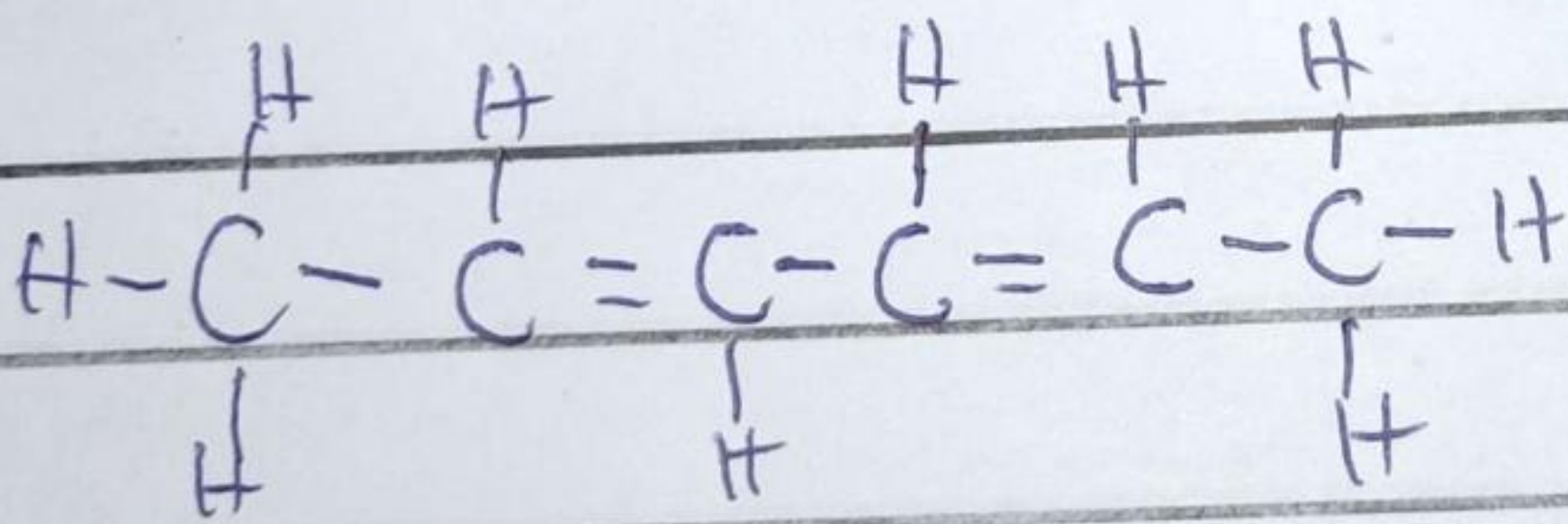
2. $[\alpha]_D^{25} = \frac{\alpha}{l \times c}$

$S_y = \frac{1.0}{1 \times \left(\frac{0.856}{10}\right)}$

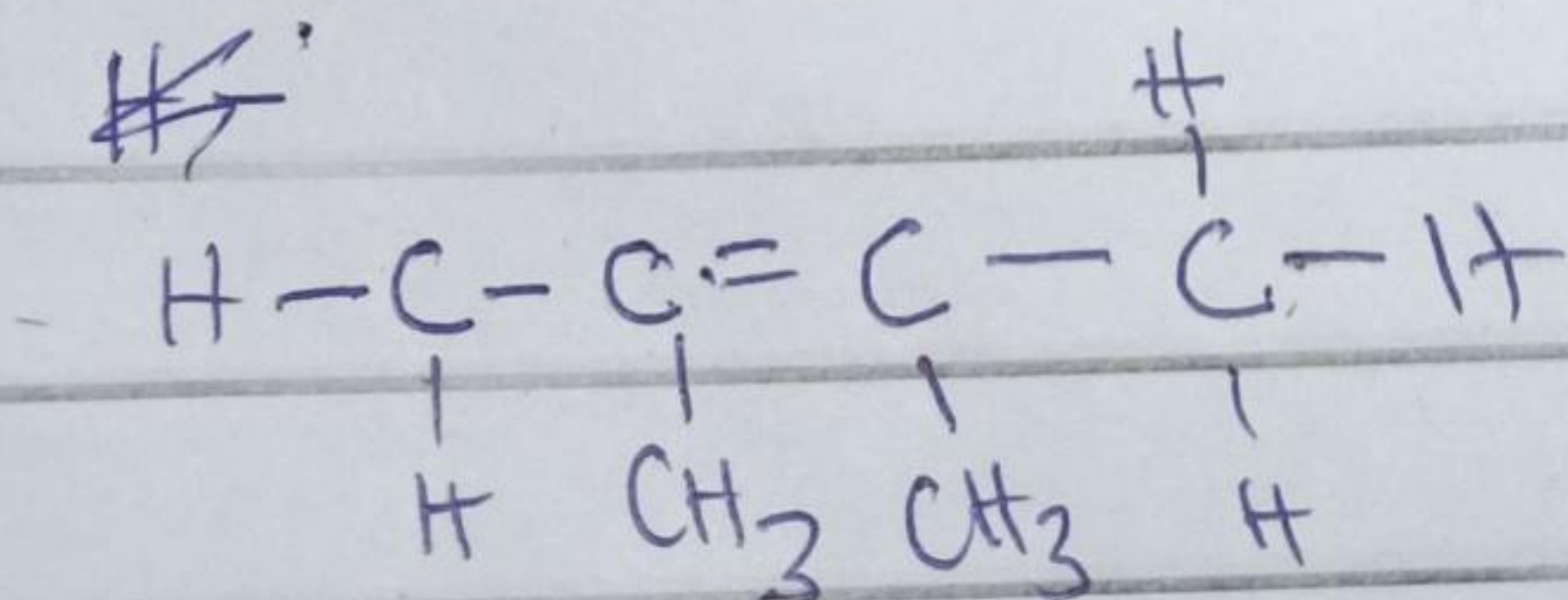
$S_y = 1 = 11.68$
 0.0856



3(i) Hexa-2,4-diene



ii) 2,3-dimethylbut-2-ene



OK