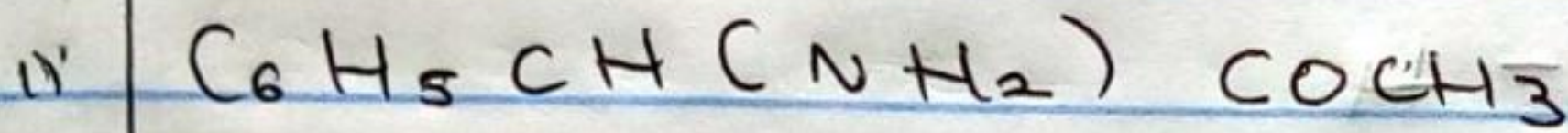


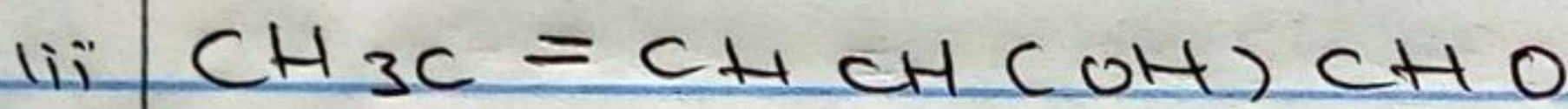
functional groups

- Double bond chain = (Alkene)
- OH (hydroxyl group)
- alcohol



functional groups:

- Amine
- phenyl group ( $\text{C}_6\text{H}_5$ ) with double bonds
- Alkanone / ketone ( $\text{C}=\text{O}$ )



functional groups

- + Alcohol ( $\text{C}-\text{OH}$ )
- Alkene
- Hydroxyl group (OH)

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

where

$l$  = length of sample tube

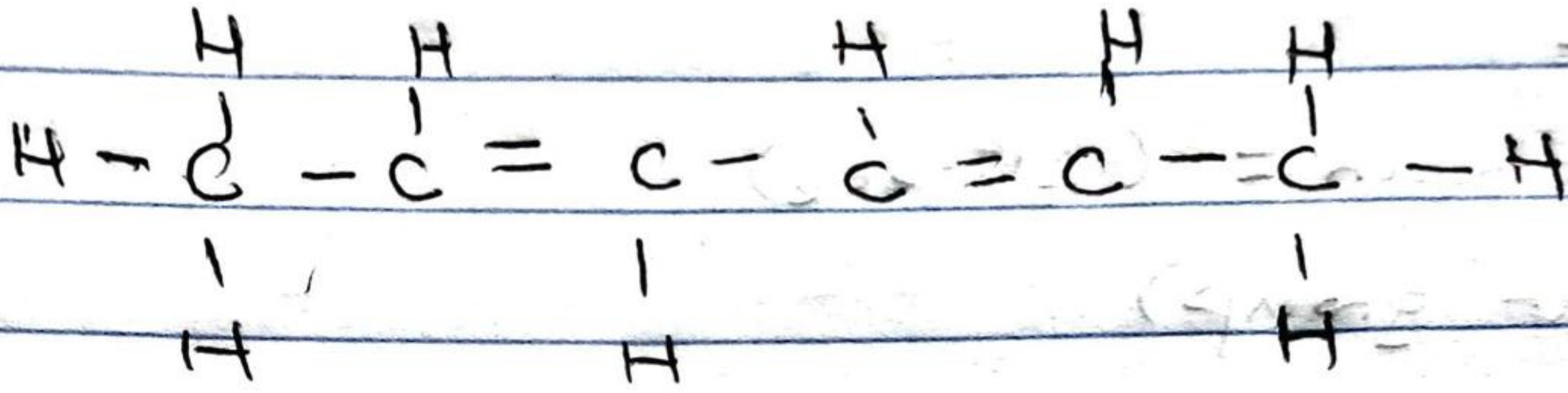
$c$  =  $\frac{\text{mass}}{\text{volume}}$  ( $\text{g}/\text{cm}^3$ ) or ( $\text{g}/\text{mol}$ )

$\alpha$  = observed rotation

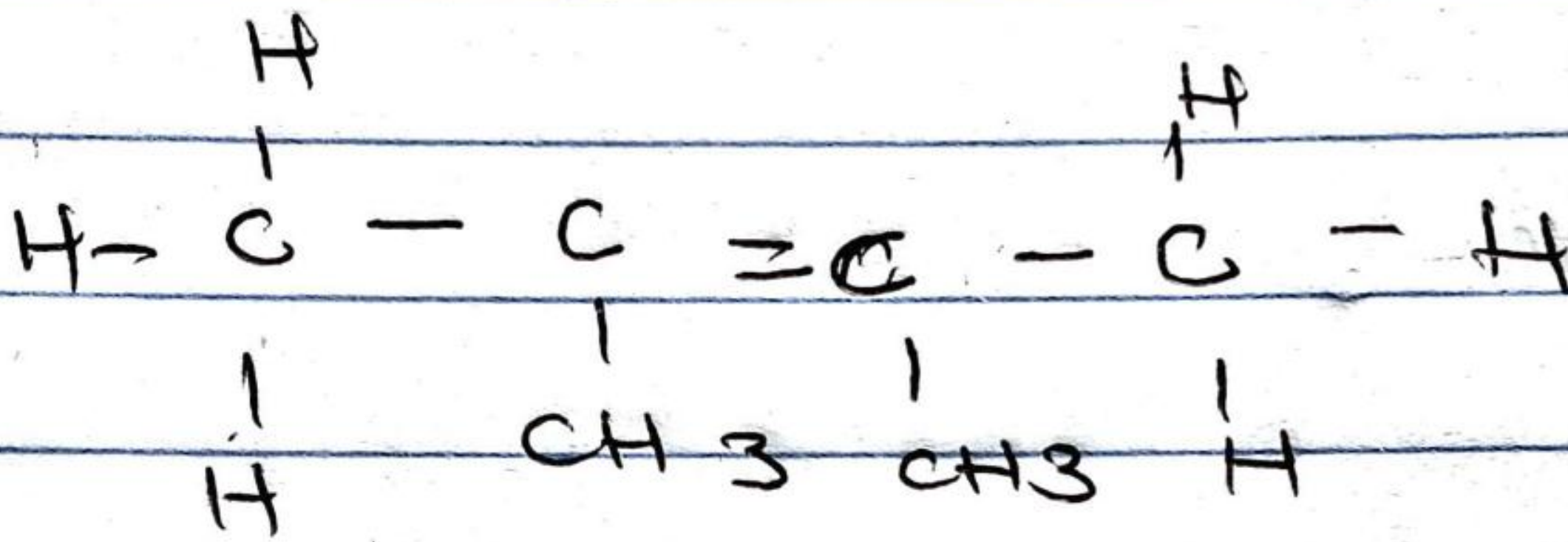
$$S_r = \frac{1.0}{1.0 \times \left(\frac{0.856}{10}\right)}$$

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

3, Hexa-2-4-diene



iv



2,3-dimethylbut-2-ene

