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Matric: 19/FN605/002

CHM 102 assignment

i) - Alkene group (double bond)

- Hydroxyl group (OH)

- Formyl group (Aldehyde) group (CHO)

ii) - Keto group (Carbonyl group) (C=O)

- Aromatic group (Phenyl group)

- Amino group (NH₂)

iii) - Hydroxyl group

- Aldehyde group

- double bond (Alkene group)

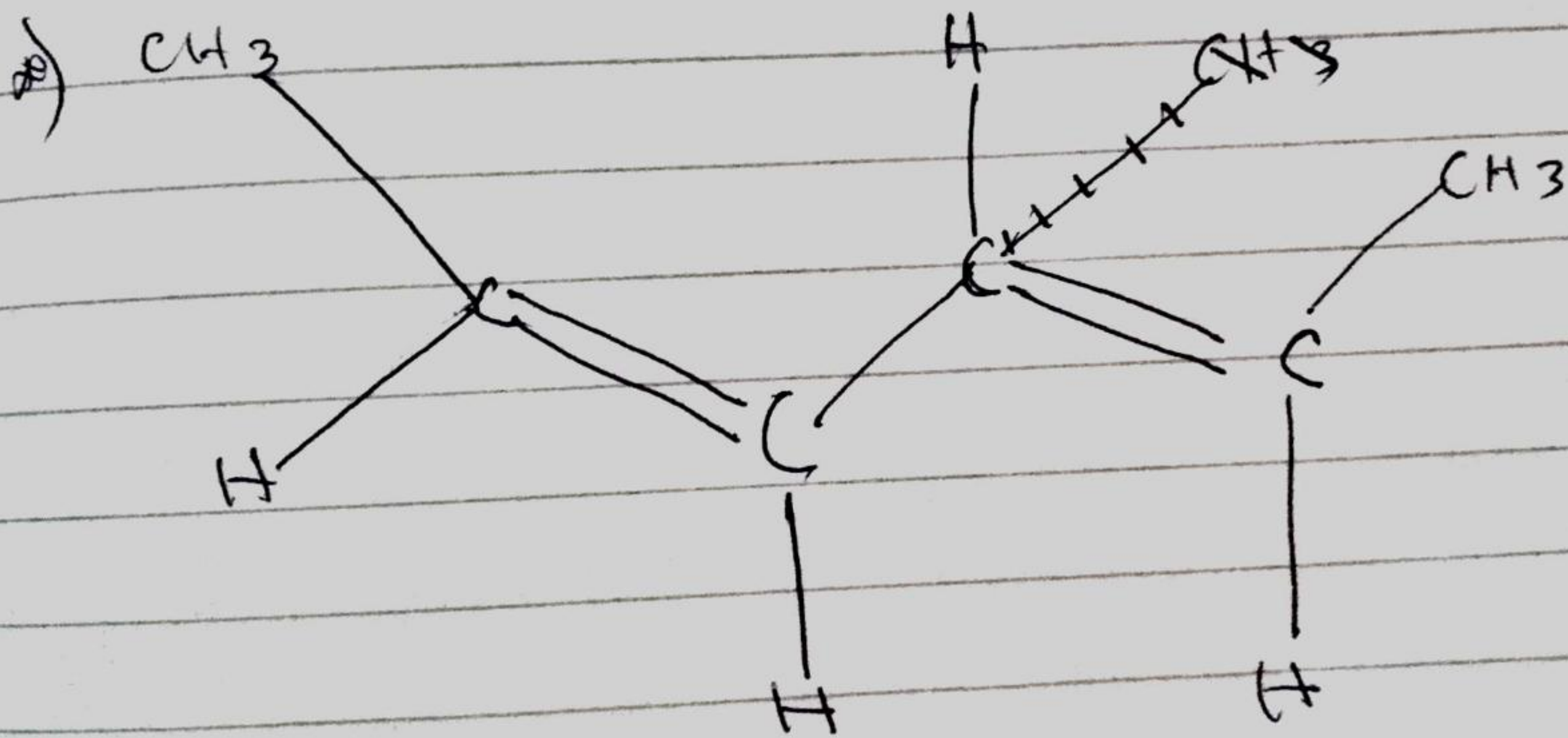
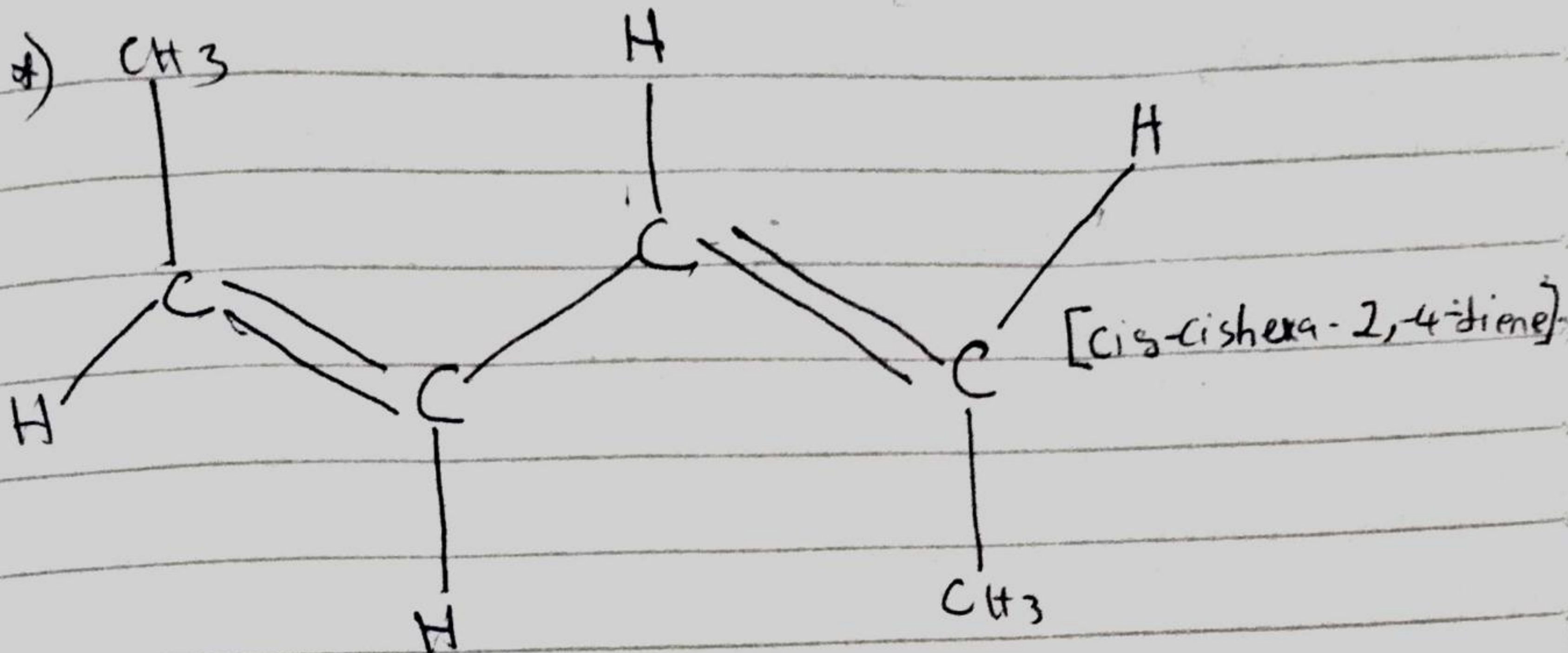
$$2) [\alpha]_D = \frac{\alpha}{c \cdot l} \quad (\text{Tartaric acid} = \text{C}_4\text{H}_6\text{O}_6)$$

$$\alpha = 11.0$$

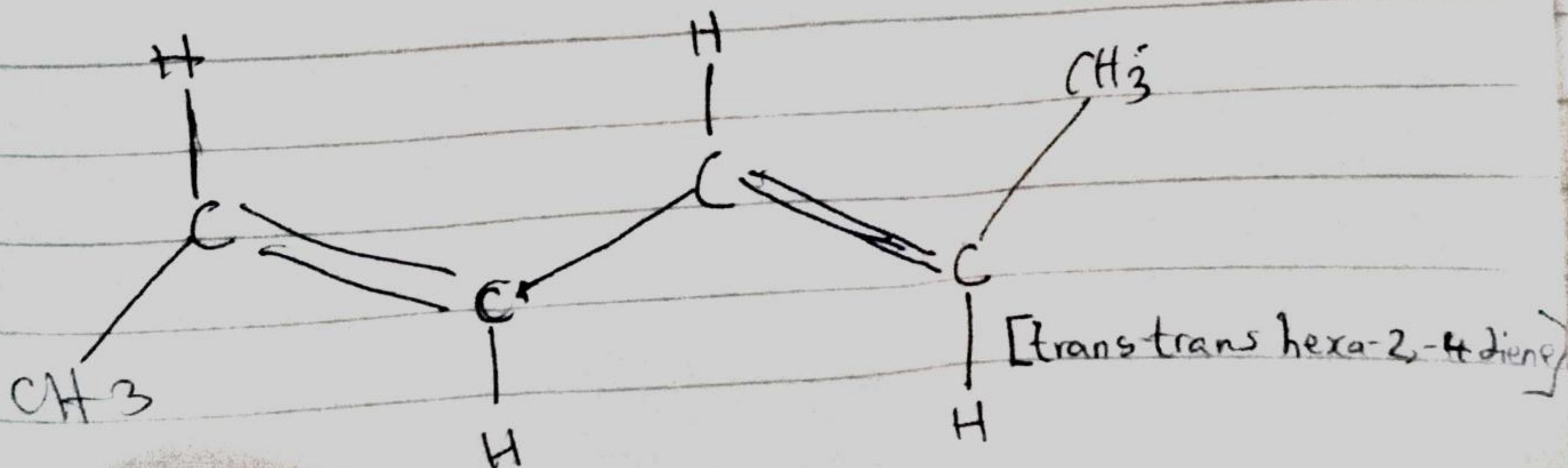
$$\text{Conc} \cdot \text{mg/cm}^3 = \frac{0.856}{10} = 0.0856$$

$$\therefore \alpha = \frac{11.0}{0.0856} = 128.5$$

3i) Hence -2,4-diene



[cis-trans-hexa-2,4-diene]



iii) 2,3-dimethyl but-2-ene

