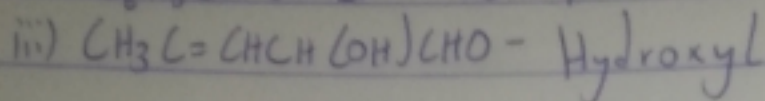
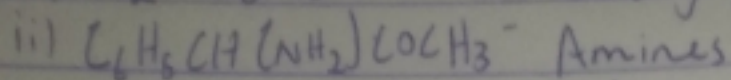
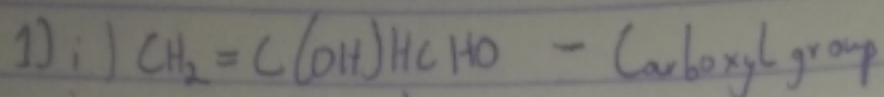


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2) Observed rotation = $+1.0^\circ$

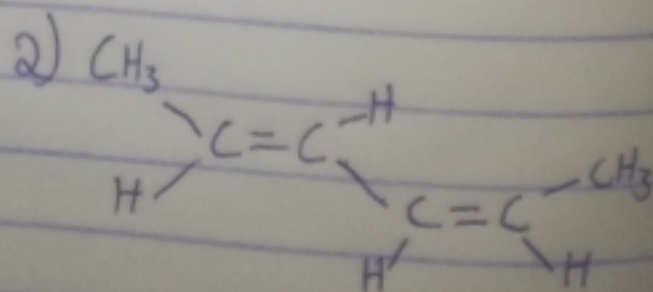
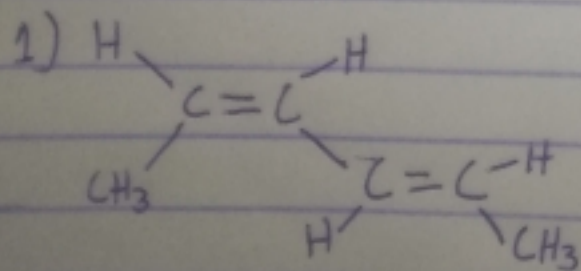
$$\text{Concentration in g/cm}^3 = \frac{0.856}{10} = 0.0856 \text{ g/cm}^3$$

$$\text{Path length of sample cell in dm} = 1 \text{ dm}$$

$$\therefore \text{Specific rotation of Sample} = \frac{\text{Observed rotation}}{(\text{Concentration in g/cm}^3) \times (\text{Path length of Sample cell in dm})}$$

$$= \frac{1}{0.0856 \times 1} = \frac{1}{0.0856}$$
$$= 11.68^\circ \text{ g}^{-1} \text{ cm}^3 \text{ dm}^{-1}$$

3) A) Isomers of Hexa-2,4-diene



B) Geometric Isomers of 2,3-dimethylbut-2-ene

