

2) Recall

$$[\alpha]_D^{25} = \alpha$$

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

where

l = length of sample tube

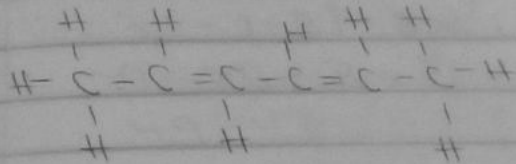
c = mass (g/dm³) or (g/mol)

α = observed rotation

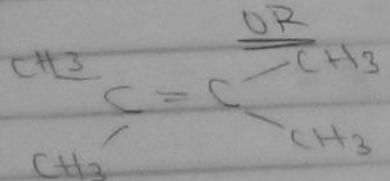
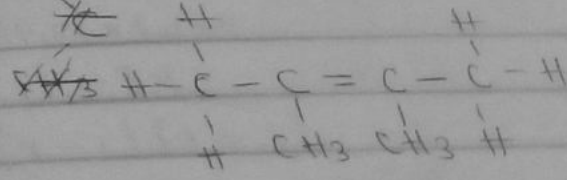
$$S_x = \frac{1 - \alpha}{1.0 \times \left(\frac{0.856}{10}\right)}$$

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

3) Hexa-2,4-diene



ii) ~~2,3~~ 2,3-Dimethylbut-2-ene



Neo-butene