

Ityoachim Faith

Mnena

19/MHS01/210

MBS

ITYOACHIMIN FAITH MAINA
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CHAP 102.

1. Functional group present are

$C_6H_5C(OH)CHO \Rightarrow$ Aldehyde, Alkene and Alkano

$C_6H_5CH(CH_2)COCH_3 \Rightarrow$ Amides and Ketones

$CH_3C(CH_3)CH(OH)CHO \Rightarrow$ Alkene, Alkano and Aldehydes.

2. Observed rotation = 1.0

$$\text{Concentration} = \frac{0.856g}{1.0cm^2} = 0.856g/cm^3$$

length of sample cell = 1.0 dm

$\therefore S.P = 0.856$

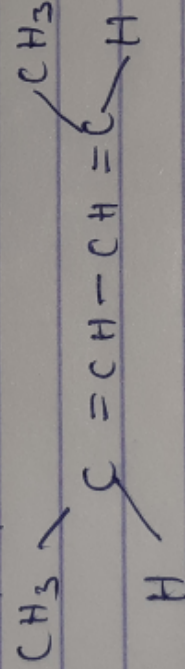
$\text{conc.} \times \text{path length sample}$

$$= \frac{1}{0.856 \times 1}$$

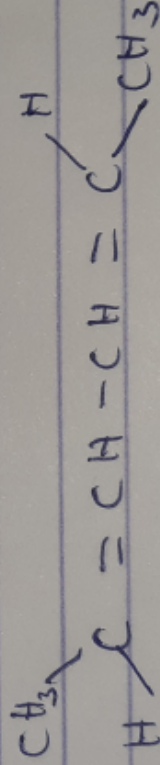
$$= 11.68g^{-1}cm^3dm^{-1}$$

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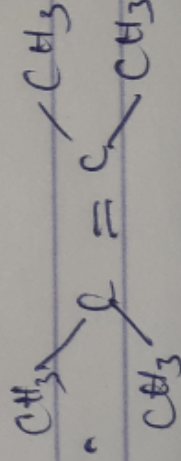
3. Hexa-2,4-diene



Cis Hexa-2,4-diene



trans Hexa-2,4-diene.



2,3-Dimethylbut-2-ene