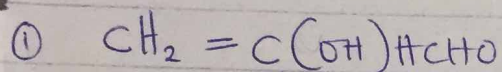


Emeafu Faith Obiageli  
MbbS

Chem 102

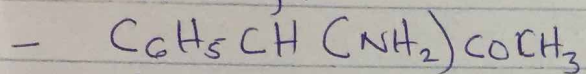
19/11/2021



~~Alkanal~~

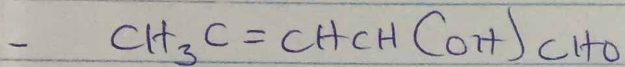
~~Alkene~~

Aldehyde



Ketone

Amine



~~Alkanol~~

Alkene

Aldehyde

② Observed rotation (degrees)

$(\text{concentration g/cm}^3) \times (\text{path length of sample cell in dm})$

= Specific rotation

concentration ( $\text{g/cm}^3$ ) = 0.856g in  $10\text{cm}^3$

$1\text{cm}^3 = 0.0856\text{g}$

=  $+1.0^\circ$

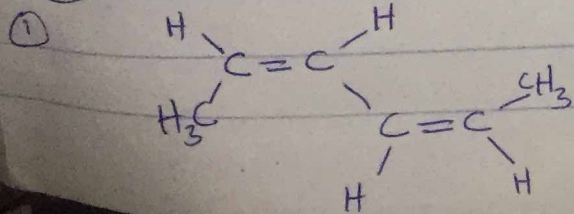
$1\text{dm} \times 0.0856\text{g/cm}^3$

=  $+11.68^\circ \text{g}^{-1}\text{cm}^3\text{dm}^{-1}$

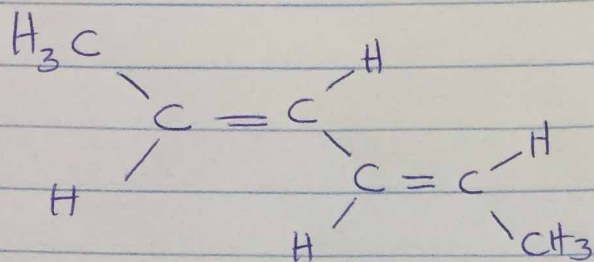
③ The possible geometric isomers for

① Hexa-2,4-diene

Cis-trans hexa-2,4-diene

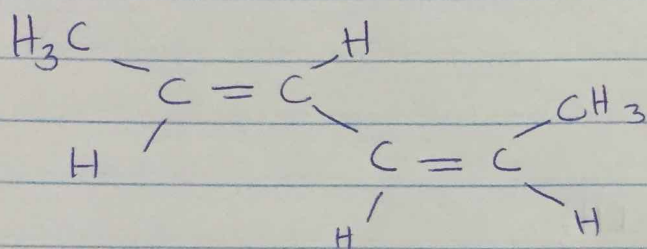


(ii)



trans-trans hexa 2,4-diene

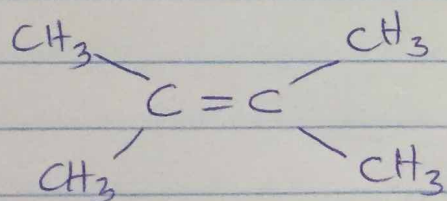
(iii)



Cis-trans hexa 2,4 diene

(B)

2,3-Dimethyl but-2-ene



Each double bonded Carbon has identical groups