

Stereochemistry and Functional Group

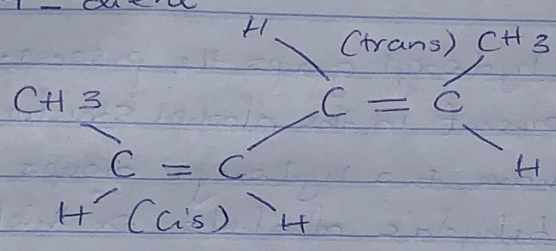
- (i) Aldehydes
- (ii) Amines
- (iii) Aldehydes

(2)
$$\text{Specific rotation} = \frac{\text{Observed rotation (degrees)}}{(\text{Concentration g/cm}^3) \times (\text{path length of cell in dm})}$$

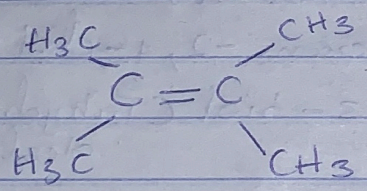
$$\therefore \text{Specific of (2R, 3R) tartaric acid} = \frac{20^\circ \text{C}}{(0.856 \text{ g}) (1.0 \text{ dm})}$$

$$= 23.36^\circ \text{g}^{-1} \text{dm}^{-1}$$

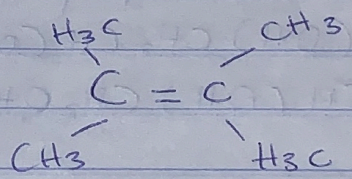
(3)(i) Hexa-2,4-diene



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



Cis-2,3-Dimethylbut-2-ene



trans-2,3-Dimethylbut-2-ene