

BLESSING UYO

CHM 102

HUMAN ANATOMY

16/MHS03/018

STEREOCHEMISTRY AND FUNCTIONAL GROUPS.

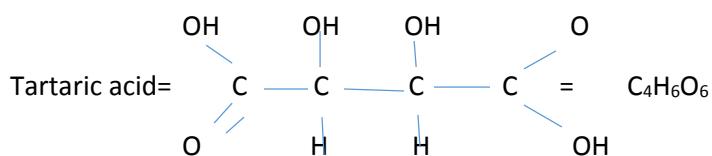
1. Name the functional groups present in each of the following molecules

- i)  $\text{CH}_2\text{C}(\text{OH})\text{HCHO}$ ----- Formyl group (aldehyde) group(CHO), Hydroxyl group(OH), Alkene group  
ii)  $\text{C}_6\text{H}_5\text{CH}(\text{NH}_2)\text{COCH}_3$ ----- Amines, carbonyl group, aromatic  
iii)  $\text{CH}_3\text{C}=\text{CHCH}(\text{OH})\text{CHO}$ ----- Alkene, hydroxyl group, aldehyde group.

2. Concentration (mol/dm<sup>3</sup>) =  $\frac{\text{conc. (g/dm}^3)}{\text{molar mass (g/mol)}}$

$[\alpha]^T_i = \alpha$  \_\_\_\_\_

C.L



Molar mass = 150 g/mol

0.856g-----10cm<sup>3</sup>

Xg-----1000cm<sup>3</sup>

0.856 x 1000 = 85.6g/dm<sup>3</sup>

10

Concentration in g/cm<sup>3</sup> = concentration in (g/dm<sup>3</sup>)

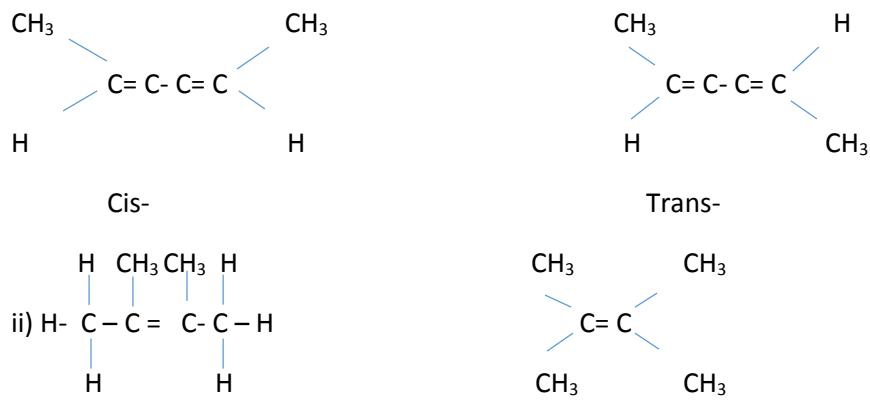
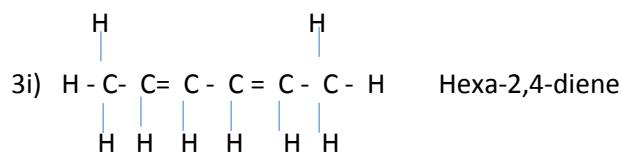
1000

= 85.6 = 0.0856g/cm<sup>3</sup>

1000

$[\alpha]^T_i = \alpha$  \_\_\_\_\_ = 4.10° = 11.68°

C.L 0.0856



No geometric isomer