



Organic Chemistry

Test Study Guide:

Ch.2 *ISOMERS*

- Structural Isomers
- Stereoisomers
- Relative and Absolute Configurations
- And More

CONCEPT SUMMARY

Structural Isomers

- Share only a molecular formula.
- Exhibit different physical and chemical properties.

Stereoisomers

Conformational Isomers: Differ by rotation around a single (σ) bond.

- Staggered Conformations:
 - i. Groups are 60° apart in Newman projections.
 - ii. Anti Staggered: Two largest groups are 180° apart, minimizing strain.
 - iii. Gauche Staggered: Two largest groups are 60° apart, introducing some strain.
- Eclipsed Conformations:
 - i. Groups are directly in front of each other in Newman projections.
 - ii. Totally Eclipsed: Two largest groups are directly aligned, maximizing strain.

Strain in Cyclic Molecules:

- Comes from:
 - i. Angle Strain: Due to stretching or compressing angles from their normal size.
 - ii. Torsional Strain: From eclipsing conformations.
 - iii. Nonbonded Strain: From interactions between substituents on nonadjacent carbons.
- Cyclic molecules typically adopt nonplanar shapes to minimize these strains.

Substituents in Cyclohexane:

- Substituents on cyclohexane can be classified as axial(pointing up or down from the molecular plane) or equatorial(in the plane of the molecule).
- Axial substituents create increased nonbonded strain due to steric interactions.

Positioning of Substituents:

- In cyclohexane molecules with multiple substituents, the largest substituent typically occupies the equatorial position to minimize steric strain and enhance stability.

Configurational Isomers:

- Configurational isomers can only be interconverted by breaking and reforming bonds, indicating that their spatial arrangement is fixed unless chemical bonds are altered.

Enantiomers:

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Raffaella Di Napoli



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