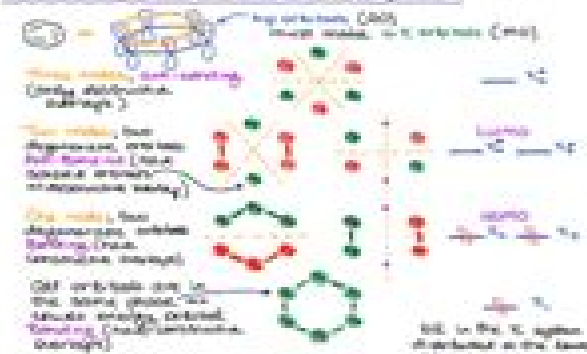


Mechanism of Reaction in Aromatic Compounds



Final Cycle Diagrams - easy way to predict substituted aromatic compounds for electrophilic aromatic substitution.

A cyclic compound is considered to be cyclic, with a great deal of symmetry.

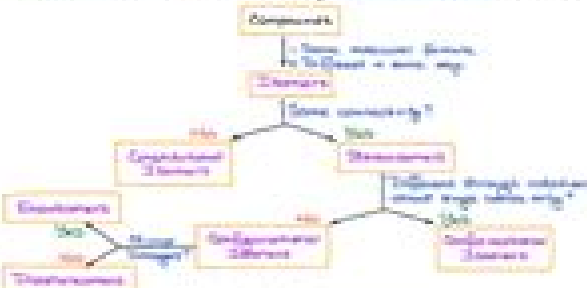


Due to the resonance, the positive charge is delocalized over the ortho and para positions of the sigma complex.

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Summary of Stereochemical Relationships

- Constitutional Isomers** - completely different molecules
- Conformational Isomers** - same molecule that only differ in 3D-structure due to free rotation around single bonds
- Enantiomers** - non-superimposable mirror images that share physical & chemical properties in achiral environment
- Diastereomers** - non-superimposable, non-mirror images that have different physical & chemical properties
- Meso Compounds** - non-chiral due to the plane of symmetry, however, have chiral centers



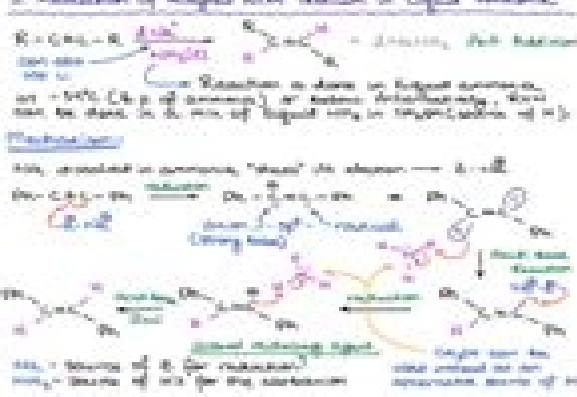
Stereochemical Relationships of Enantiomers

Enantiomers are mirror images, non-superimposable, and have identical physical properties in achiral environment, they are the only pair of enantiomers that are optically active, rotating plane polarized light in opposite directions.

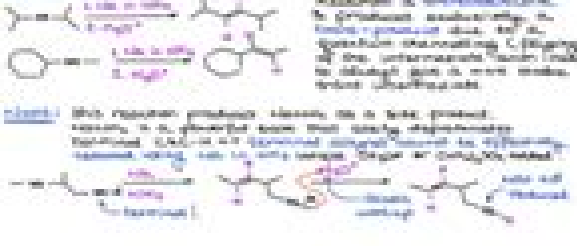
Diastereomers are not mirror images, they have different physical & chemical properties, and they are not optically active.

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Reaction of Aromatic with Nitration in Liquid Phase

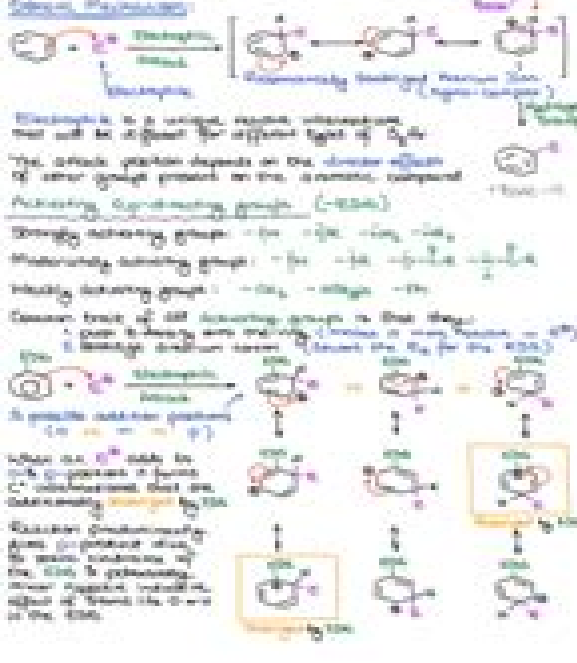


Reaction is stereoselective, it produces enantiomers in equal amounts due to the planar nature of the sigma complex.



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Electrophilic Aromatic Substitution Reactions (EAS)



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Aromatic Substitution Mechanism

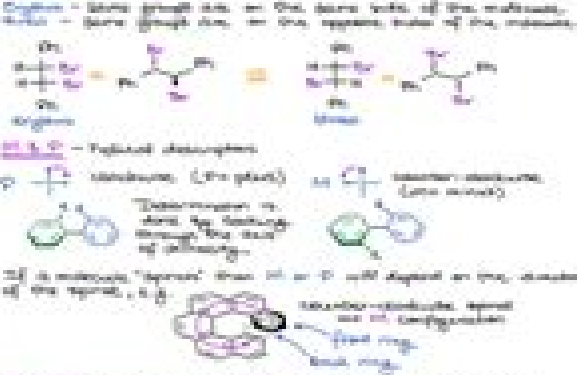


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