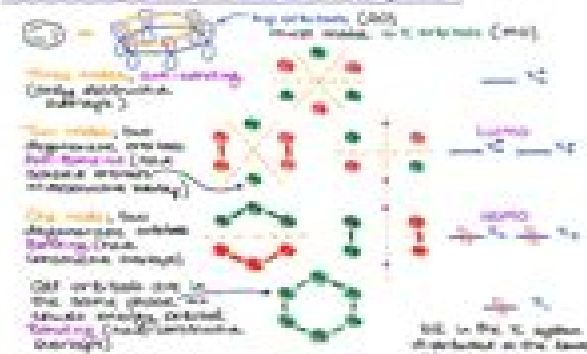


# Mechanism of Reaction in Aromatic Compounds



**Final Cycle Diagram** - easy way to predict product using substituted benzene derivatives for electrophilic aromatic substitution.

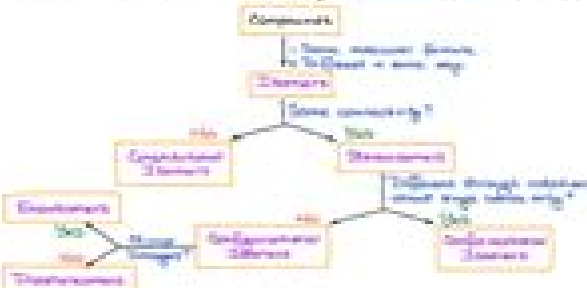
A cyclic compound is considered to be a cyclic with a point above the ring.



Due to the resonance, the positive charge is delocalized over five carbons, making the sigma complex more stable.

## Summary of Stereochemical Relationships

- Constitutional Isomers** - completely different molecules
- Conformational Isomers** - same molecule that only differ in 3D shape 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



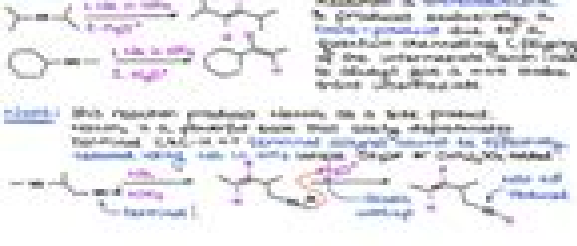
## Stereochemical Relationships of Enantiomers

Enantiomers are mirror images of each other. They have the same physical & chemical properties in an achiral environment, but they differ in their interaction with plane-polarized light (optical activity) and in their reaction with chiral reagents.

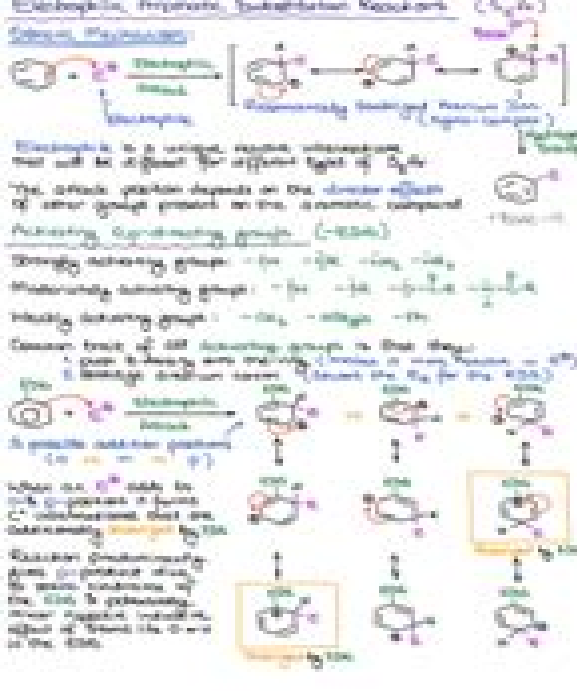
## Reaction of Alkylated with Nitration in Liquid Ammonia



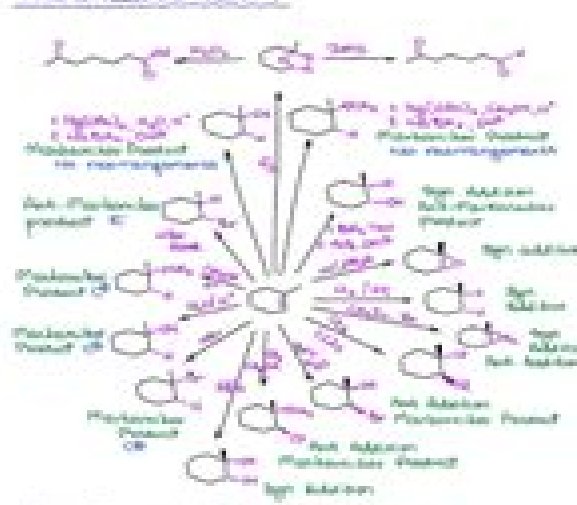
**Final Cycle Diagram** - easy way to predict product using substituted benzene derivatives for electrophilic aromatic substitution.



## Electrophilic Aromatic Substitution Reactions (EAS)



## Alkene Reaction Mechanism

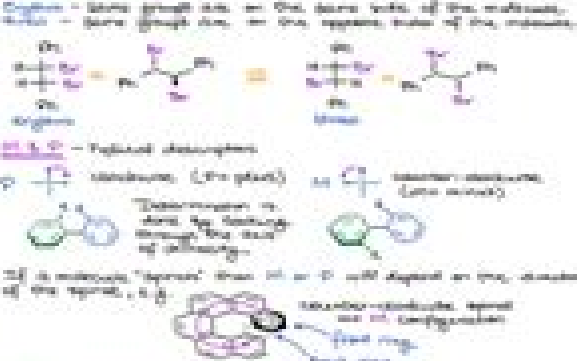


## Alkene Functional Group Conversion

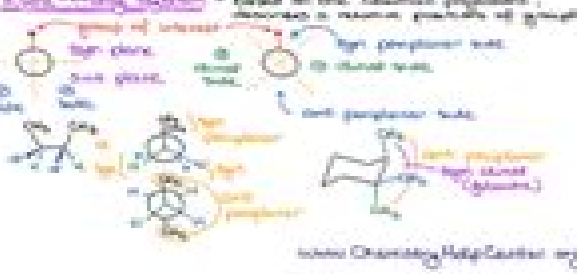


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## Reaction of Alkene with Halogen



## Reaction of Alkene with Halohydrin



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# Organic Chemistry Guide

**Reinhart Keese, Martin P.  
Brändle, Trevor P. Toubé**



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necessary detail often given in a complete organic chemistry text Here the topics covered span the entire standard organic chemistry curriculum The authors describe subjects which require further explanation offer alternate viewpoints for understanding and provide hands on practical problems and solutions to help master the material This text ultimately allows students to apply key ideas from their general chemistry curriculum to key concepts in organic chemistry

**Key Features**

- Reviews key general chemistry concepts and techniques adapted for application to important organic principles
- Provides practical guidance to help students make the notoriously well known and arduous transition from general chemistry to organic chemistry
- Explains organic concepts and reaction mechanisms generally expanding the focus on how to understand each step from a more intuitive viewpoint
- Covers concepts that need further explanation as well as those that summarize and emphasize key ideas or skills necessary in this field
- An added bonus is help with organizing principles to make sense of a wide range of similar reactions and mechanisms
- Implements a user friendly process to achieve the end result of problem solving
- Covers organic chemistry I and II concepts at the level and depth of a standard ACS organic chemistry curriculum
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**The Nuts and Bolts of Organic Chemistry** Joel Karty, 2006 The Nuts and Bolts of Organic Chemistry will help readers change their learning habits so they can master the Organic Chemistry course This text is designed for readers to use early in the course before they dive too far into a traditional textbook It prepares readers to think about and use the fundamental concepts it develops in readers the right mindset for learning organic chemistry This brief book shows readers that understanding fundamental concepts is absolutely essential for success and helps them develop a good feel for how to apply those concepts to many different situations The text helps convince readers that brute memorization is not the right way to approach the course instead they should master fundamental concepts and important reaction mechanisms By following the same philosophy as those who write the MCAT exams Karty focuses on improving readers thinking ability and powers of logical deduction For all readers interested in understanding the fundamentals of organic chemistry

**Organic Chemistry** T. W. Graham Solomons, Craig B. Fryhle, Scott A. Snyder, 2016

**Study Guide and Solutions Book** Harold Hart, Robert D. Schuetz, 1978-01-01

**Study Guide and Solutions Manual for Essential Organic Chemistry** Paula Yurkanis Bruice, 2015-03-04 This Study Guide Solution Manual contains learning objectives chapter summaries and outlines as well as examples self tests and concept questions as well as complete step by step solutions to selected problems

**Organic Chemistry Study Guide** Robert J. Ouellette, J. David Rawn, 2014-10-13 Organic Chemistry Study Guide Key Concepts Problems and Solutions features hundreds of problems from the companion book Organic Chemistry and includes solutions for every problem Key concept summaries reinforce critical material from the primary book and enhance mastery of this complex subject Organic chemistry is a constantly evolving field that has great relevance for all scientists not just chemists For chemical engineers understanding the properties of organic molecules and how reactions

occur is critically important to understanding the processes in an industrial plant For biologists and health professionals it is essential because nearly all of biochemistry springs from organic chemistry Additionally all scientists can benefit from improved critical thinking and problem solving skills that are developed from the study of organic chemistry Organic chemistry like any skill is best learned by doing It is difficult to learn by rote memorization and true understanding comes only from concentrated reading and working as many problems as possible In fact problem sets are the best way to ensure that concepts are not only well understood but can also be applied to real world problems in the work place Study Guide

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*Organic Synthesis* Reinhart Keese,Martin P. Brändle,Trevor P. Toubé,2006-06-16 Success in an experimental science such as chemistry depends on good laboratory practice a knowledge of basic techniques and the intelligent and careful handling of chemicals Practical Organic Synthesis is a concise useful guide to good laboratory practice in the organic chemistry lab with hints and tips on successful organic synthesis Topics covered include safety in the laboratory environmentally responsible handling of chemicals and solvents crystallisation distillation chromatographic methods extraction and work up structure determination by spectroscopic methods searching the chemical literature laboratory notebooks writing a report hints on the synthesis of organic compounds disposal and destruction of dangerous materials drying and purifying solvents Practical Organic Synthesis is based on a successful course in basic organic chemistry laboratory practice which has run for several years at the ETH Zurich and the University of Berne and its course book Grundoperationen now in its sixth edition

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web draw and describe them on your answer sheet 4 place the stem pieces on a corner of your paper towel and turn your attention to the cap look at the underside of the cap to

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web 1 get your mushroom and place it on the paper towels in front of you examine it closely on the bottom of this lab draw a diagram of your mushroom labeling the cap stem and

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web 1 take a close look at your mushroom do a scientific drawing of it in the box to the right label the cap gills and stalk you may want to grab a textbook to help you if you can t

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web this lab pairs well with a unit on protists fungi it is hands on for life science or biology students and is very easy to set up and clean up the activity itself should take about 30

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web ers mushrooms in the genus agaricus are raised commercially and sold in most grocery stores the mushroom is actually the fruiting body or reproductive structure of a fungus

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web in this lab students will observe the external and internal features of various mushroom specimen as they explore the kingdom of fungi students will dissect a mushroom look

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web 1 get your mushroom and place it on the paper towels in front of you examine it closely on a sheet of paper draw a diagram of your mushroom labeling the cap stem and gills

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web apr 26 2011 the purpose of this lab was to solidify what we learned by examining the different parts of the mushroom first we looked at the mushroom as a whole with the

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web view the mushroom specimens available in the lab do not dissect them see if you can find the gills on the underside of the basidiocarp name the specific spores formed by the

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web students will dissect a mushroom look at spore types spore prints as well as create wet mount slides of mushroom cross sections and observe them under the microscope

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