

# Reactions of Amines and Epoxydes

## Preparation of Amines

Ammonium hydroxide:  $\text{NH}_4^+ + \text{OH}^- \rightarrow \text{NH}_3 + \text{H}_2\text{O}$



## Four different types of bonds



There are four types of bonding between atoms in a molecule.

- Ionic bonds are formed by the transfer of electrons from one atom to another (anions and cations) (Opposite charges).



- Covalent bonds are formed by sharing of electrons between two atoms.



### Opposite sign and plus (O-H) bonds

Opposite signs are illustrated in liquid H<sub>2</sub>O (top right).

- Opposite bonds are formed by (partial) bonding of atoms.
- O-H bonds are formed by (partial) bonding of atoms.
- Very simple bond is a covalent bond.
- Non-polar bonds are formed of two opposite and identical.



Non-polar bonds are stronger than ionic.

## The Relative Strength of the Bonds

### Strength and Number of bonds

### Hydrogen bonding

### Electrostatic interactions

### Metallic bonding

### Ionic bonding

### Covalent bonding

### Hydrogen bonding

### Electrostatic interactions

### Metallic bonding

### Ionic bonding

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### Electrostatic interactions

### Metallic bonding

### Ionic bonding

### Covalent bonding

### Hydrogen bonding

### Electrostatic interactions

### Metallic bonding

### Ionic bonding

### Covalent bonding

### Hydrogen bonding

### Electrostatic interactions

### Metallic bonding

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## **Table of Contents Organic Chemistry Forth Edition Study Guide**

1. Understanding the eBook Organic Chemistry Forth Edition Study Guide
  - The Rise of Digital Reading Organic Chemistry Forth Edition Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Organic Chemistry Forth Edition Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Organic Chemistry Forth Edition Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Organic Chemistry Forth Edition Study Guide
  - Personalized Recommendations
  - Organic Chemistry Forth Edition Study Guide User Reviews and Ratings
  - Organic Chemistry Forth Edition Study Guide and Bestseller Lists
5. Accessing Organic Chemistry Forth Edition Study Guide Free and Paid eBooks
  - Organic Chemistry Forth Edition Study Guide Public Domain eBooks
  - Organic Chemistry Forth Edition Study Guide eBook Subscription Services
  - Organic Chemistry Forth Edition Study Guide Budget-Friendly Options

6. Navigating Organic Chemistry Forth Edition Study Guide eBook Formats
  - ePUB, PDF, MOBI, and More
  - Organic Chemistry Forth Edition Study Guide Compatibility with Devices
  - Organic Chemistry Forth Edition Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Organic Chemistry Forth Edition Study Guide
  - Highlighting and Note-Taking Organic Chemistry Forth Edition Study Guide
  - Interactive Elements Organic Chemistry Forth Edition Study Guide
8. Staying Engaged with Organic Chemistry Forth Edition Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Organic Chemistry Forth Edition Study Guide
9. Balancing eBooks and Physical Books Organic Chemistry Forth Edition Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Organic Chemistry Forth Edition Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Organic Chemistry Forth Edition Study Guide
  - Setting Reading Goals Organic Chemistry Forth Edition Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Organic Chemistry Forth Edition Study Guide
  - Fact-Checking eBook Content of Organic Chemistry Forth Edition Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

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