

# Reactions of Amines and Epoxydes

## Preparation of Amines

Ammonium hydroxide: hydroxide is more basic than hydroxide in acid



## Four different types of bonds

1. Ionic Bonds  
2. Covalent Bonds  
3. Hydrogen Bonds  
4. Metallic Bonds

There are four types of bonding: ionic bonding and covalent bonding

- 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



## The Polarity of the bond



## Hydrogen and Van der Waals



## Metals



## There are two main categories

### 1. Covalent bonds

### 2. Metallic bonds

### 3. Ionic bonds

### 4. Hydrogen bonds

### 5. Van der Waals

### 6. Polar covalent bonds

### 7. Nonpolar covalent bonds

### 8. Double bonds

### 9. Triple bonds

### 10. Lone pairs

### 11. Partial charges

### 12. Partial positive charges

### 13. Partial negative charges

### 14. Partial double bonds

### 15. Partial triple bonds

### 16. Partial lone pairs

### 17. Partial ionic bonds

### 18. Partial hydrogen bonds

### 19. Partial van der Waals

### 20. Partial polar covalent bonds

### 21. Partial metallic bonds

### 22. Partial ionic bonds

### 23. Partial hydrogen bonds

### 24. Partial van der Waals

### 25. Partial polar covalent bonds

### 26. Partial metallic bonds

### 27. Partial ionic bonds

### 28. Partial hydrogen bonds

### 29. Partial van der Waals

### 30. Partial polar covalent bonds

### 31. Partial metallic bonds

### 32. Partial ionic bonds

### 33. Partial hydrogen bonds

### 34. Partial van der Waals

### 35. Partial polar covalent bonds

### 36. Partial metallic bonds

### 37. Partial ionic bonds

### 38. Partial hydrogen bonds

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### 40. Partial polar covalent bonds

### 41. Partial metallic bonds

### 42. Partial ionic bonds

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### 45. Partial polar covalent bonds

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### 51. Partial metallic bonds

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# Pavia Organic Chemistry Lab Study Guide

**Lingsheng Yao**

## **Pavia Organic Chemistry Lab Study Guide:**

*Organic Laboratory Experiments of the Future* Bruce H. Lipshutz, Hubert Muchalski, 2025-12-05 This lab manual offers students the opportunity to learn organic chemistry through a green chemistry lens resulting in a more sustainable future looking course. Lipshutz and Muchalski's *Organic Laboratory Experiments of the Future Doing Chemistry in Water* approaches the subject with experiments, diagrams, and illustrations shaped by student feedback and honed through years of research and laboratory experience. *Organic Laboratory Experiments of the Future Doing Chemistry in Water* includes material on reactions run in water, including but not limited to ppm Pd catalyzed couplings, SNAr reactions, nitro group reductions, enzyme catalyzed reactions, catalytic hydrogenation of olefins, olefin metathesis, reductive aminations, and chemoenzymatic sequences. This lab manual is ideal for courses in organic chemistry, biochemistry, sustainable and green chemistry, and environmentally responsible lab courses. Provides practical information and techniques for utilizing green chemistry and chemistry in water in particular in the study of modern organic chemistry. Includes numerous figures, examples, illustrative problems, and appendices that reinforce laboratory concepts and methods. Features coverage on experiments that focus on chemocatalysis as well as biocatalysis, reactions that include Nobel Prize winning organometallic chemistry, multi-step sequences involving chemocatalysis or chemoenzymatic catalysts.

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- Chapter 1: Introduction to Pavia Organic Chemistry Lab Study Guide
- Chapter 2: Essential Elements of Pavia Organic Chemistry Lab Study Guide
- Chapter 3: Pavia Organic Chemistry Lab Study Guide in Everyday Life
- Chapter 4: Pavia Organic Chemistry Lab Study Guide in Specific Contexts
- Chapter 5: Conclusion

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