

# 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.



## Region (p) and p-orbital bonds

- Covalent bonds are classified as region (p) and p-orbital.
- Region bonds are formed by bond between two atoms.
- p bonds are formed by side-on overlap of atoms.
- Very simple bond is a covalent bond.
- Non-overlapping bond consists of two regions and two p-orbitals.



Region bonds are stronger than p-orbital.

## Four types of bonds

### Hydrogen bonds

### Metallic bonds

### Ionic bonds

### Covalent bonds

### Region bonds

### p-orbital bonds

### Hydrogen bonds

### Metallic bonds

### Ionic bonds

### Covalent bonds

### Region bonds

### p-orbital bonds

### Hydrogen bonds

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# Pavia Organic Chemistry Lab Study Guide

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