

Reactions of Amines and Epoxydes

Preparation of Amines

Ammonium chlorides: $\text{NH}_4^+ + \text{H}_3\text{N}^- \rightarrow \text{NH}_3 + \text{NH}_4^+$



Four different types of bonds

1. Ionic bond
2. Covalent bond
3. Hydrogen bond
4. Metal bond

There are four types of bonding: ionic bonding and covalent bonding.
Ionic bonds are formed by the transfer of electron from one atom to another (anions and cations).
Covalent bonds are formed by sharing of electrons between two atoms.



The difference between ionic and covalent bonding



Covalent and ionic bonds

Covalent bonds are classified as sigma (σ) and pi (π).
σ bonds are formed by head-on overlap of orbitals.
π bonds are formed by side-on overlap of orbitals.
σ bonds form in a covalent bond.
π bonds form in an ionic bond.



There are two main types of bonds: ionic and covalent.

Difference of ionic and covalent bonding

Ionic bond

Covalent bond

Hydrogen bond

Metal bond

Hydrogen bond

Covalent bond

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Organic Chem Amine Study Guide

David R. Klein

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