

# Reactions of Amines and Epoxides

## Preparation of Amines

Amines are colorless, basic, and have a strong, fishy odor.



A summary of Ring-Opening Reactions of Epoxides with Strong and Weak Nucleophiles



Epoxide Reactions and Mechanisms

## Bond Types, Strength, Length, Polarity and Dipole Moment

### Types of Bonding

There are two types of bonding: ionic bonding and covalent bonding.

- **Ionic bonds** are formed by the transfer of electrons from one element to another (ionization potential) and electron affinity (electron affinity).



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



### The Relative Strength of Ions



### Bond and Electron Sharing



### Bonding in Molecules



### There are two types of bonding:

1. **Ionic bonding**



2. **Covalent bonding**



## Sigma and pi bonds

Covalent bonds are classified into sigma and pi bonds.

- **Sigma bonds** are formed by head-on overlap of orbitals.
- **pi bonds** are formed by side-on overlap of orbitals.
- **Single bonds** are sigma bonds.
- **Double bonds** are sigma and pi bonds.



pi bonds are stronger than sigma bonds.

## Polar and Nonpolar Covalent Bonds

Depending on the difference in electronegativity, covalent bonds can be polar and nonpolar.



- If the difference in electronegativity is less than 0.5, the electrons are shared equally (nonpolar).
- If the difference in electronegativity is between 0.5 and 1.7, the electrons are shared unequally (polar).
- If the difference in electronegativity is greater than 1.7, the electrons are not shared (ionic).

- A difference of 1.7 or higher indicates that the electrons are not shared (ionic).
- A difference of 0.5 or lower indicates that the electrons are shared (nonpolar).

## Dipole Moment

The polarity of a bond is described by the dipole moment (μ).



- The dipole moment is a vector pointing from the less electronegative atom to the more electronegative atom.
- The more electronegative atom has a partial negative charge (δ<sup>-</sup>) and the less electronegative atom has a partial positive charge (δ<sup>+</sup>).
- δ<sup>-</sup> (delta minus) indicates an electron-deficient atom.
- δ<sup>+</sup> (delta plus) indicates an electron-rich atom.

## Molecular Dipole

To determine the molecular polarity, the vector sum of the dipoles is used.

The geometry of the molecule is important. Symmetrical molecules are nonpolar, even if the dipoles are present. A good example is carbon dioxide.



Carbon dioxide is a linear molecule, so the dipoles cancel.

## Bond Length and Bond Strength

The longer the bond, the weaker it is.

Bond	H-H	H-Cl	H-F	H-I
Length	109 pm	127 pm	131 pm	154 pm
Strength	436 kJ/mol	431 kJ/mol	568 kJ/mol	298 kJ/mol

Double bonds are stronger than single bonds, and triple bonds are stronger than double bonds.

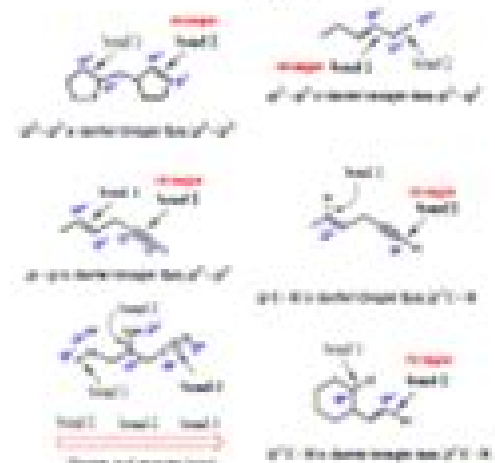


The longer the bond, the weaker it is.

Average values of C-C and C-H bonds depending on hybridization			
C-C Bond	sp <sup>3</sup> -sp <sup>3</sup>	sp <sup>2</sup> -sp <sup>2</sup>	sp-sp
Hybridization	sp <sup>3</sup> -sp <sup>3</sup>	sp <sup>2</sup> -sp <sup>2</sup>	sp-sp
Length	154 pm	134 pm	120 pm
Strength	347 kJ/mol	461 kJ/mol	591 kJ/mol
Hybridization	sp <sup>3</sup> -sp <sup>3</sup>	sp <sup>2</sup> -sp <sup>2</sup>	sp-sp
C-H Bond	sp <sup>3</sup> -sp <sup>3</sup>	sp <sup>2</sup> -sp <sup>2</sup>	sp-sp
Length	109 pm	108 pm	106 pm
Strength	413 kJ/mol	439 kJ/mol	505 kJ/mol

Higher s character means stronger bond

## Examples



# Organic Chemistry Reactions Study Guide

**Susan McMurry, John McMurry**



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