

Reactions of Amines and Epoxides

Preparation of Amines

Amines are often made by reduction of nitriles or by Gabriel phthalimide synthesis



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



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).



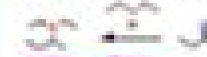
- Covalent bonds are formed by sharing of electrons between two atoms.



The Relative Strength of Bonds



Bond and Bonding



Bonding



There are two types of bonding

Definition of bonding



Sigma and pi bonds

Covalent bonds are classified as sigma and pi bonds

- Sigma bonds are formed by head-on overlap of orbitals.
- pi bonds are formed by side-on overlap of orbitals.
- A single bond is a sigma bond.
- A double bond consists of one sigma and one pi bond.



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 bond).
- If the difference in electronegativity is between 0.5 and 1.7, the electrons are shared unequally (polar bond).
- If the difference in electronegativity is greater than 1.7, the electrons are transferred (ionic bond).

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

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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⁻) and the less electronegative atom has a partial positive charge (δ⁺).
- δ⁻ (delta minus) indicates an electron deficient atom.
- δ⁺ (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 not zero.



Overall the molecule is nonpolar (dipole moment is zero)

Bond Length and Bond Strength

The length of a bond is the distance between the nuclei of the two atoms.

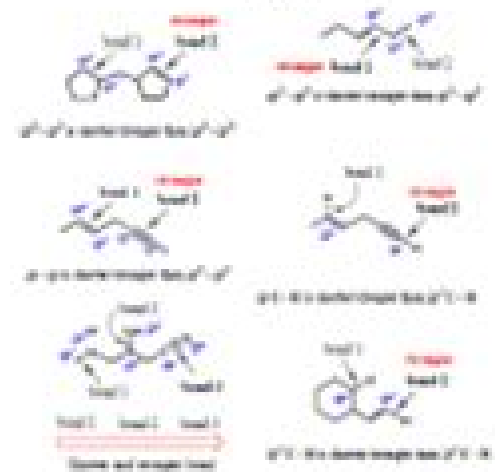


The length of a bond is the distance between the nuclei of the two atoms.

Average values of C-C and C-H bonds depending on hybridization			
C-C Bond	sp ³ -C	sp ² -C	sp-C
Hybridization	sp ³ -C	sp ² -C	sp-C
Length	1.54 Å	1.48 Å	1.43 Å
Strength	33 kcal/mol	47 kcal/mol	58 kcal/mol
Hybridization	sp ³ -C	sp ² -C	sp-C
C-H Bond	sp ³ -C	sp ² -C	sp-C
Length	1.09 Å	1.08 Å	1.06 Å
Strength	98 kcal/mol	110 kcal/mol	120 kcal/mol

Higher s character = stronger and shorter bond

Examples



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