

Reactions of Amines and Epoxides

Preparation of Amines

Amines are often made by reduction of nitriles or by reductive amination of aldehydes and ketones.



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



Regioselectivity and Stereochemistry

Bond Types, Strength, Length, Polarity and Dipole Moment

Types of Bonding Interactions

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).



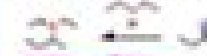
- Covalent bonds are formed by sharing of electrons between two atoms.



The Relative Strength of Bonds



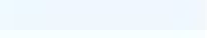
Bond and Bonding Interactions



Bonding Interactions



There are two types of bonding interactions



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 the electronegativity values, 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 not shared (ionic bond).

- A difference of 1.7 or higher can be high for the electrons are not shared (ionic bond).

- A difference of 1.7 or higher can be high for the electrons are not shared (ionic bond).

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 present. A good example is carbon dioxide.



Carbon dioxide is a linear molecule and the dipoles cancel.

Bond Length and Bond Strength

The length of a bond is important.

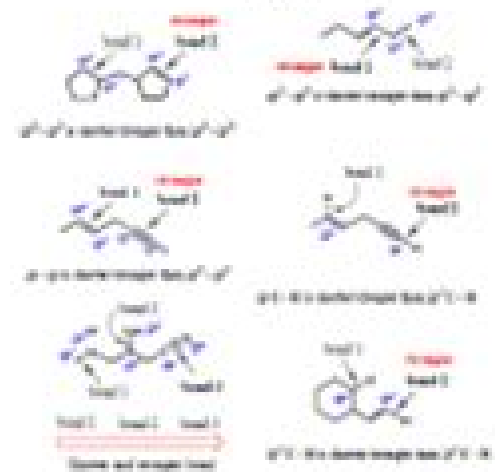


The length of a bond is important.

Average values of C-C and C-H bonds depending on hybridization			
C-C Bond	sp ³ -C-C	sp ² -C-C	sp-C-C
Hybridization	sp ³ -sp ³	sp ² -sp ²	sp-sp
Length	1.54 Å	1.34 Å	1.20 Å
Strength	33 kcal/mol	47 kcal/mol	58 kcal/mol
Hybridization	sp ³ -sp ³	sp ² -sp ²	sp-sp
Length	1.54 Å	1.34 Å	1.20 Å
Strength	33 kcal/mol	47 kcal/mol	58 kcal/mol

Higher s character = stronger and shorter bond

Examples



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Table of Contents Organic Chem Study Guide

1. Understanding the eBook Organic Chem Study Guide
 - The Rise of Digital Reading Organic Chem Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Organic Chem Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Organic Chem Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Organic Chem Study Guide
 - Personalized Recommendations
 - Organic Chem Study Guide User Reviews and Ratings
 - Organic Chem Study Guide and Bestseller Lists
5. Accessing Organic Chem Study Guide Free and Paid eBooks

- Organic Chem Study Guide Public Domain eBooks
- Organic Chem Study Guide eBook Subscription Services
- Organic Chem Study Guide Budget-Friendly Options
- 6. Navigating Organic Chem Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Organic Chem Study Guide Compatibility with Devices
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- 7. Enhancing Your Reading Experience
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 - Interactive Elements Organic Chem Study Guide
- 8. Staying Engaged with Organic Chem Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Organic Chem Study Guide
- 9. Balancing eBooks and Physical Books Organic Chem Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Organic Chem Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Organic Chem Study Guide
 - Setting Reading Goals Organic Chem Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Organic Chem Study Guide
 - Fact-Checking eBook Content of Organic Chem Study Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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web here's a video of the mini visual boost in action this option is not available for order and it was placed in first production 2011 mini by accident

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web mini visual boost radyo gösterişli yüksek çözünürlüklü ve kullanımı kolay dokunmatik bir ekranla sunulur Çift tuner dört orta ölçekli hoparlör ve iki merkezi bas hoparlöre sahiptir Özellikler arasında bluetooth hands free arayüzü ve merkezi gösterge paneli etrafında bir led halka da dahildir

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web mini navigation paketi aşağıdaki dijital hizmetleri içerir 8.8 dokunmatik ekran radio mini visual boost mini connected mini navigation sistemi akıllı telefon arayüzü 2 ek orta seviye hoparlör tüm detaylar için burayı ziyaret edin

visual boost or radio boost mini cooper forum - Jun 16 2022

web apr 11 2017 hi i ve just ordered a mini cooper d on monday and wasn t aware of what the visual boost was this looks pretty cool from what i have seen any recommendations to order or not to order it i have an iphone so feel that i could just my iphone for the features that it brings

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web jul 3 2017 hi everyone i ve ordered a new mini cooper d with a package that contains the visual boost 6 5 inches without nav and enhanced bluetooth only this option costs 430 so i ve the standard bluetooth i ve read a lot of thread regarding the standard bluetooth but i m a little bit confused i

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web bereits in der grundausstattung enthalten sind teleservices sowie der intelligente notruf und das radio mini visual boost es verfügt über bildschirmradio mit 8 8 touchscreen fm doppeltuner mini centre instrument mit led ring 2 verschiedene hmi farbwelten bluetooth audio streamingfreisprechtelefonie

visual boost excitement pack mini cooper forum - Mar 26 2023

web oct 29 2016 guys i have visual boost radio and excitement pack as options car is 2016 f56 mini cooper what i don t have is a driving excitement option and correlating displays under the vehicle menu for an example power and torque display

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