

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



Regioselectivity and Stereochemistry

Bond Types, Strength, Length, Polarity and Dipole Moment

Free-radical halogenation



There are two types of halogen bond: covalent bond and ionic bond.

• **Covalent bond** is formed by the sharing of electrons from one orbital of one atom (nucleophile) and one orbital of another atom (electrophile).



• **Coordinate bond** is formed by sharing of electrons between two atoms.



The Relative Electronegativity of Atoms



Bond and Electron Sharing



Bonding in Molecules



There are two types of bond: polar and nonpolar.

Definition of polar and nonpolar:



Sigma and pi bonds

Covalent bonds are classified into sigma and pi bonds.

• **Sigma bond** is formed by head-on overlap of orbitals.

• **Pi bond** is formed by side-on overlap of orbitals.

• **Single bond** is a sigma bond.

• **Double bond** consists of one sigma and one pi bond.



• **Double bond** is stronger than single bond.

Polar and Nonpolar Covalent Bonds

Depending on the difference in electronegativity:

• **Polar covalent bond** is formed between atoms with different electronegativities.

• **Nonpolar covalent bond** is formed between atoms with similar electronegativities.



• If the difference in electronegativity is less than 0.5, the bond is nonpolar.

• If the difference in electronegativity is between 0.5 and 1.7, the bond is polar.

• A difference of 1.7 or higher indicates an 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 vector dipole moment is a physical property of a molecule.

• **μ (dipole moment)** indicates an electron shift in a bond.

• **Δ (dipole moment)** indicates an electron shift in a bond.

Molecular Dipole

To determine the molecular dipole, the vector sum of the dipole moments is used.

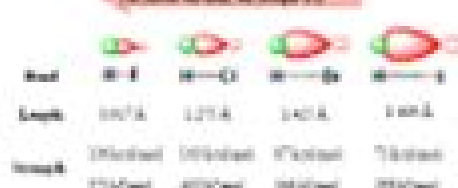
The polarity of the molecule is a physical property. The vector sum of the dipole moments is used to determine the molecular dipole.



• **Double bond** is stronger than single bond.

Bond Length and Bond Strength

• **Bond length** is the distance between the nuclei of two atoms.

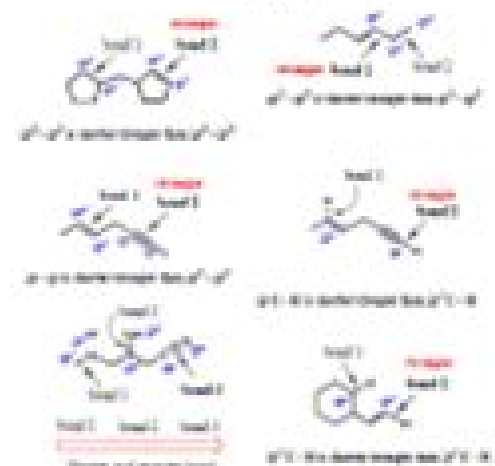


• **Bond length** is the distance between the nuclei of two atoms.

Average values of C-C and C-H bonds depending on hybridization			
C-C Bond	sp^3-sp^3	sp^2-sp^2	$sp-sp$
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	$sp-sp$
C-H Bond	sp^3-sp^3	sp^2-sp^2	$sp-sp$
Length	1.09 Å	1.06 Å	1.06 Å
Strength	98 kcal/mol	110 kcal/mol	120 kcal/mol

• **Bond length** is the distance between the nuclei of two atoms.

Examples



• **Bond length** is the distance between the nuclei of two atoms.



Organic Chemistry Forth Edition Study Guide

David R. Klein



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cedric mcmillan star bodybuilder dead at 44 cnn - Dec 11 2022

apr 13 2022 cnn bodybuilder cedric mcmillan has died at the age of 44 his sponsor confirmed tuesday we regret to inform you that our friend and brother cedricmcmillan passed away today cedric will

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the sudden death of renowned bodybuilder yogesh has shocked the fitness community yogesh a nine time champion died shortly after a workout session at a gym in chennai preliminary

female bodybuilder and fitness influencer dies suddenly - Mar 14 2023

1 day ago back in aug 2023 another young female fitness influencer larissa borges from brazil died after suffering two heart attacks in borges case there was the possibility of alcohol and narcotics being a contributing factor to the sudden cardiac arrests raechelle chase a popular new zealander female bodybuilder and fitness influencer died

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oct 20 2023 in february 2023 it was reported that champion bodybuilder tonya knight had passed away aged 56 following a lengthy battle with cancer tonya was an american champion bodybuilder who was born in

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jun 6 2023 hiv and viral hepatitis along with sharing needles may also be the cause of death among bodybuilders the mortality of rate of bodybuilders compared to the male population is 34 higher in 2023 professional bodybuilders were found to die at a lower rate than professional wrestlers

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mr olympia champion bodybuilder shawn rhoden dies aged 46 - Feb 13 2023

nov 6 2021 rhoden who was crowned mr olympia in 2018 at the age of 43 making him the oldest bodybuilder to ever win the title remained committed to bodybuilding until his death while an official

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jan 30 2023 premature deaths in bodybuilders regularly make headlines and are cited as evidence that bodybuilding is a dangerous activity a wealth of research has revealed elite athletes typically enjoy lower mortality rates than non athletes but research on bodybuilder lifespan is surprisingly limited

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bodybuilder raechelle chase dies suddenly with cause of death - May 16 2023

oct 20 2023 raechelle s rise to fame raechelle was most well known for being a fitness influencer and a former bodybuilder her career started in bodybuilding where she became the first kiwi woman to have taken part in the figure olympia bodybuilding event back in 2011 in las vegas she later became an internet sensation getting a whopping 1 4million facebook

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