

Molecular Geometry



Bonding & shapes of molecules



- Shape of a molecule plays role in reactivity
- To predict shape, note number of bonding & nonbonding (lone pairs) electron pairs
- Assume electron pairs are placed as far apart from each other as possible
- Areas of electron density, aka **electron domains**, electron pairs (bonding or nonbonding)
- Double/triple bonds are still considered only **1** electron domain

Prediction of molecular shapes

- Molecular shapes can be predicted based on: Lewis structures & valence-shell electron-pair repulsion, VSEPR model
- Valence-shell electron-pair repulsion theory: best arrangement of given number of electron domains is the one that minimizes repulsions among them



Electron domain geometry

- Arrangement of electron domains (lone pairs/bonds) around central atom of molecule/ion
- Five basic geometric structures: **NB!** Electron-domain geometry is often **NOT** the shape of the molecule, molecular geometry is defined by positions of only atoms in molecules, not nonbonding pairs (lone pairs).

- Linear
- Trigonal planar
- Tetrahedral
- Trigonal bipyramidal
- Octahedral



Linear (2 ED)



Trigonal planar (3 ED)



Tetrahedral (4 ED)



Trigonal bipyramidal (5 ED)



Octahedral (6 ED)

- For each electron domain geometry, there might be more than one molecular geometry.
- Each time a bond is replaced by a lone pair, a different molecular geometry is created.

Molecular geometries

Linear electron domain

- Only one molecular geometry: linear
- If there are only two atoms in molecule (eg. CO, C=O), molecule is always linear



Trigonal planar electron domain



Trigonal planar



- Two molecular geometries:
- Trigonal planar, if all electron domains are bonding
- Bent, if one of the domains is a nonbonding pair

Tetrahedral electron domain

- Three molecular geometries:
- Tetrahedral, if all are bonding pairs
- Trigonal pyramidal, if one is a nonbonding pair
- Bent, if there are two nonbonding pairs



Tetrahedral



Trigonal pyramidal



Bent

Trigonal bipyramidal electron domain

- Two distinct positions:
- Axial
- Equatorial
- Four distinct molecular geometries:
- Trigonal bipyramidal, all bonding pairs
- Seesaw, one nonbonding pair
- T-shaped, two nonbonding pairs
- Linear, three nonbonding pairs



Trigonal bipyramidal



T-shaped



Lower-energy conformations result from having non-bonding electron pairs in equatorial, rather than axial, positions in this geometry (ie. non-bonding pairs always in equatorial rather than axial, less electron repulsion)

Answers To Gpb Chemistry Molecular Geometry

Puja Mehta



Answers To Gpb Chemistry Molecular Geometry:

Molecular Physics and Elements of Quantum Chemistry Hermann Haken, Hans Christoph Wolf, 2013-04-18 Since the publication of the first edition of this book there have been many important new developments in the field of molecular physics. The new methods and results which are most significant for students are treated extensively in this second edition. Among these are in particular single molecule spectroscopy and the field of molecular electronics which is in a stage of rapid development including the areas of electroluminescence and organic light emitting diodes. In addition we have extended and corrected the earlier material in a number of places. We have also included exercises in this new edition they will allow students to deepen their understanding and offer a basis for further individual study. The complete solutions to the exercises can be found on the Internet under www.springeronline.com 3 540 40792 S. We are grateful to Mr C D Bachem and Dr Th Schneider of the Springer Verlag for their continuous and very agreeable cooperation during the preparation of the book. We thank our colleague Prof W D Brewer for his competent translation. Stuttgart February 2004 H Haken H C Wolf. Preface to the First Edition. This textbook is intended for use by students of physics, physical chemistry and theoretical chemistry. The reader is presumed to have a basic knowledge of atomic and quantum physics at the level provided for example by the first few chapters in our book *The Physics of Atoms and Quanta*.

Encyclopedia of Biological Chemistry, 2013-01-08 The 4 volume Encyclopedia of Biological Chemistry Second Edition represents the current state of a dynamic and crucial field of study. The Encyclopedia pulls together over 500 articles that help define and explore contemporary biochemistry with content experts carefully chosen by the Editorial Board to assure both breadth and depth in its coverage. Editors In Chief William J Lennarz and M Daniel Lane have crafted a work that proceeds from the acknowledgement that understanding every living process from physiology to immunology and genetics is impossible without a grasp on the basic chemistry that provides its underpinning. Each article in the work provides an up to date snapshot of a given topic written by experts as well as suggestions for further readings for students and researcher wishing to go into greater depth. Available on line via SciVerse ScienceDirect the functionality of the Encyclopedia will provide easy linking to referenced articles electronic searching as well as an online index and glossary to aid comprehension and searchability. This 4 volume set thoroughly up to date and comprehensive expertly captures this fast moving field. Curated by two esteemed editors in chief and an illustrious team of editors and contributors representing the state of the field. Suggestions for further readings offer researchers and students avenues for deeper exploration a wide ranging glossary aids comprehension.

Advances in Protein Chemistry and Structural Biology, 2010-12-16 Structural genomics is the systematic determination of 3 D structures of proteins representative of the range of protein structure and function found in nature. The goal is to build a body of structural information that will predict the structure and potential function for almost any protein from knowledge of its coding sequence. This is essential information for understanding the functioning of the human proteome the ensemble of tens of

thousands of proteins specified by the human genome While most structural biologists pursue structures of individual proteins or protein groups specialists in structural genomics pursue structures of proteins on a genome wide scale This implies large scale cloning expression and purification One main advantage of this approach is economy of scale Examines the three dimensional structure of all proteins of a given organism by experimental methods such as X ray crystallography and NMR spectroscopy Looks at structural genomics as a foundation of drug discovery as discovering new medicines is becoming more challenging and the pharmaceutical industry is looking to new technologies to help in this mission

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International Review of Neurobiology ,1985-05-10 International Review of Neurobiology

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