

Molecular Models Lab Covalent Compounds

Introduction

The purpose of this lab is to evaluate the geometries and polarities of simple covalent molecules. Many physical and chemical properties of compounds depend upon the shape or geometry of the molecule and its polarity. A hemoglobin molecule, for example, becomes ineffective as an oxygen transport vehicle if its shape is altered. Molecular shape determines a compound's boiling point, freezing point, and viscosity. A molecule's polarity determines whether it dissolves in water or not.

Molecular Geometries

The geometry of a small molecule can be predicted by examining the central atom. The valence electron pairs that surround the central atom will repel each other. The electron pairs will position themselves so that there is a maximum distance between them. This rule is called the **VSEPR** theory (Valence Shell Electron Pair Repulsion). The electron pairs include the covalent bonds (shared pairs) and the unshared pairs of electrons. The 5 simplest geometries and their characteristics are found in the following table:

No. of Electron Pairs on Central Atom	Geometry Name	Central Atom Characteristics	Comments
No central atom	Linear	$X - X$	If a molecule only contains 2 atoms it is linear.
2 shared, 0 unshared	Linear	$— X —$ or $= X =$	Double and triple bonds only count as a shared pair for geometry purposes.
3 shared, 0 unshared	Trigonal planar	$\begin{array}{c} \\ — X — \end{array}$ or $\begin{array}{c} \\ = X = \end{array}$	Bond angles are 120°
4 shared, 0 unshared	Tetrahedral	$\begin{array}{c} \\ — X — \\ \end{array}$	Since the molecule is 3-dimensional, the bond angles are 109° , not 90° .
2 shared, 2 unshared	Bent	$\begin{array}{c} \\ : X : \\ \end{array}$	The bond angle is slightly $< 109^\circ$, not 90° .
3 shared, 1 unshared	Pyramidal	$\begin{array}{c} \\ — X : \\ \end{array}$	The bond angle is slightly $< 109^\circ$, not 90° .

Conclusion For Molecular Models Lab In Chemistry

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Verma, Chandrabhan Verma, Jeenat
Aslam**



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Exploring General Chemistry in the Laboratory Colleen F. Craig, Kim N. Gunnerson, 2017-02-01 This laboratory manual is intended for a two semester general chemistry course The procedures are written with the goal of simplifying a complicated and often challenging subject for students by applying concepts to everyday life This lab manual covers topics such as composition of compounds reactivity stoichiometry limiting reactants gas laws calorimetry periodic trends molecular structure spectroscopy kinetics equilibria thermodynamics electrochemistry intermolecular forces solutions and coordination complexes By the end of this course you should have a solid understanding of the basic concepts of chemistry which will give you confidence as you embark on your career in science

Computational Modelling and Simulations for Designing of Corrosion Inhibitors Dakeshwar Kumar Verma, Chandrabhan Verma, Jeenat Aslam, 2023-04-19 Computational Modeling and Simulations for Designing of Corrosion Inhibitors Fundamentals and Realistic Applications offers a collection of major advancements in the field of computational modeling for the design and testing of corrosion inhibition effectiveness of organic corrosion inhibitors This guide presents the latest developments in molecular modeling of organic compounds using computational software which has emerged as a powerful approach for theoretical determination of corrosion inhibition potentials of organic compounds The book covers common techniques involved in theoretical studies of corrosion inhibition potentials and mechanisms such as density functional theory molecular dynamics Monte Carlo simulations artificial neural networks and quantitative structure activity relationship Covers basic fundamental principles advantages parameters and applications of computational and molecular modeling for designing potential corrosion inhibitors for metals and alloys Describes advancements of computational modeling for the design of organic corrosion inhibitors and applications in electrochemical engineering and materials science Focuses on the most advanced applications in industry oriented fields including current challenges Includes websites of interest and information about the latest research

Bioinformatics for Plant Research and Crop Breeding Jen-Tsung Chen, 2024-10-28 Explore and advance bioinformatics and systems biology tools for crop breeding programs in this practical resource for researchers Plant biology and crop breeding have produced an immense amount of data in recent years from genomics to interactome and beyond Bioinformatics tools which aim at analyzing the vast quantities of data produced by biological research and processes have developed at a rapid pace to meet the challenges of this vast data trove The resulting field of bioinformatics and systems biology is producing increasingly rich and transformative research Bioinformatics for Plant Research and Crop Breeding offers an overview of this field its recent advances and its wider applications Drawing on a range of analytical and data science tools its foundation on an in silico platform acquired multi omics makes it indispensable for scientists and researchers alike It promises to become ever more relevant as new techniques for generating and organizing data continue to transform the field Bioinformatics for Plant Research and Crop Breeding readers will also find A focus on emerging trends in plant science sustainable agriculture and

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Chemistry McGraw-Hill Staff,2001-07 **The Addison-Wesley Book of Apple Computer Software 1983** Jeffrey Stanton,Robert P. Wells,Sandra Rochowansky,1983 **The Cambridge Handbook of Multimedia Learning** Richard E. Mayer,2005-08-15 This 2005 book constitutes comprehensive coverage of research and theory in the field of multimedia learning **Energy Research Abstracts** ,1981 **Multiscale Operational Organic Chemistry** John W. Lehman,2009 This comprehensive laboratory text provides a thorough introduction to all of the significant operations used in the organic lab and includes a large selection of traditional scale and microscale experiments and minilabs Its unique problem solving approach encourages students to think in the laboratory by solving a scientific problem in the process of carrying out each experiment The Second Edition contains a new introductory section Chemistry and the Environment which includes a discussion of the principles of green chemistry Several green experiments have been added and some experiments from the previous editions have been revised to make them greener **The Book of Apple Computer Software** ,1981 Kept up to date by quarterly supplements *Merrill Chemistry* Robert C. Smoot,Smoot,Richard G. Smith,Jack Price,1998 **Treatise on Geochemistry: Environmental geochemistry** Heinrich D. Holland,2004 **Reviews of Pure and Applied Chemistry** ,1967 **Book of Abstracts** American Chemical Society. Meeting,American Chemical Society,1970 *Archives of Pathology & Laboratory Medicine* ,2008 *Computer 72; Papers* ,1972 *The Addison-Wesley Book of Apple Software* 1984 Jeffrey Stanton,1984 *Physics Briefs* ,1994 *Cyclopedia of World Authors II* Frank Northen Magill,1989 **Information Biotechnology** Rebecca Lawrence,2002

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