

Molecular Polarity

How do we know if one molecule will be attracted to another molecule?

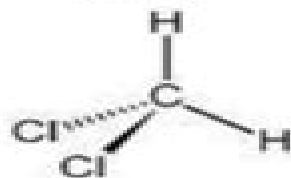
Why?

Did you ever wonder how molecules of a substance stay close together? Why does water form droplets or support things on its surface? Electrons may be distributed evenly or unevenly throughout a molecule, which creates partial charges at different parts of the molecule. These partial charges on one molecule often interact with the partial charges of a neighboring molecule. In this activity you will learn how to determine molecular polarity and placement of partial charges molecules.

Model 1 – The Molecules

POLAR MOLECULES:

Tetrahedral



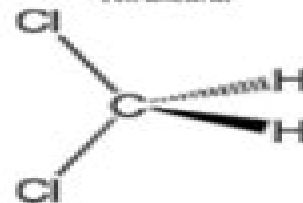
(CH₂Cl₂)

Trigonal Pyramidal



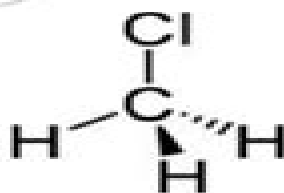
(NH₃)

Tetrahedral



(CH₃Cl)

Tetrahedral



(CH₃Cl)

Bent



(H₂O)

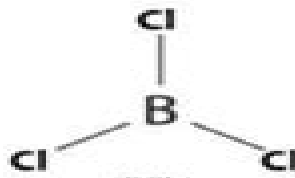
NON-POLAR MOLECULES:

Tetrahedral



(CCl₄)

Trigonal Planar



(BCl₃)

Tetrahedral



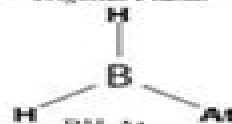
(CH₄)

Linear



(CO₂)

Trigonal Planar



(BH₃)

Bond Type Guide:

- C – Cl = Polar Covalent
- C – H = Polar Covalent
- C – O = Polar Covalent
- N – H = Polar Covalent
- O – H = Polar Covalent
- B – Cl = Polar Covalent
- B – H = Non-Polar Covalent
- B – Al = Non-Polar Covalent

Polarity Of Molecules Pogil

Eugene Madison Jones



Polarity Of Molecules Pogil:

Process Oriented Guided Inquiry Learning (POGIL) Richard Samuel Moog, 2008 POGIL is a student centered group learning pedagogy based on current learning theory This volume describes POGIL s theoretical basis its implementations in diverse environments and evaluation of student outcomes *Analytical Chemistry* Juliette Lantz, Renée Cole, The POGIL Project, 2014-12-31 An essential guide to inquiry approach instrumental analysis Analytical Chemistry offers an essential guide to inquiry approach instrumental analysis collection The book focuses on more in depth coverage and information about an inquiry approach This authoritative guide reviews the basic principles and techniques Topics covered include method of standard the microscopic view of electrochemistry calculating cell potentials the BerriLambert atomic and molecular absorption processes vibrational modes mass spectra interpretation and much more **Organic Chemistry** Suzanne M. Ruder, The POGIL Project, 2015-12-29 ORGANIC CHEMISTRY Polar Molecules P. Debye, 1965 *Polar Molecules* Peter Debye, 2012-08-01 *Polar molecules* Peter J. W. Debye, 1970 **The Role of Mental-modeling Ability, Content Knowledge, and Mental Models in General Chemistry Students' Understanding about Molecular Polarity** Chia-Yu Wang, 2007 This study explored general chemistry students thinking processes about molecular polarity and related concepts The study employed a mixed method design to reveal how general chemistry students use their conceptual frameworks and mental models to solve problems about molecular polarity The quantitative phase collected students background information scores of course exams as well as understanding and misconceptions about concepts of molecular geometry polarity and prerequisite concepts for a large sample size The qualitative phase was guided by a theoretical framework of personal constructivism and a case study methodology The primary data sources were video taped interviews to document students explanations and thinking processes The secondary data sources were students constructed artifacts and their responses to the items on the three diagnostic instruments Grounded theory approach employing a comparative method was used for data analysis Findings of the quantitative study indicated results of inferential statistics and identified students misconceptions associated with concepts of electronegativity chemical bonding bond polarity molecular shape polarity of molecules intermolecular force and ionic lattices For qualitative findings I characterized high moderate and low scoring students mental modeling ability conceptual frameworks and features of mental models while solving problems about molecular geometry and polarity The major findings include that there is a positive interaction between an individual s level of content knowledge and mental modeling ability where one may facilitate or hinder the other In addition three prerequisite concepts were identified that may explain students failure for learning about molecular geometry and polarity I also found that metacognitive ability plays a significant role in a successful mental modeling process This study provides empirical evidence for how students content knowledge mental modeling ability and construction and use of mental models influence their understanding about molecular polarity The findings have implications for college chemistry education for teaching

concepts of molecular polarity **Molecular Polarity , Polar Covalence** R Sanderson, 2012-12-02 Polar Covalence provides a detailed account of a successful approach to understanding chemistry from knowledge of atomic structure and the properties that result from this structure This book discusses the nature of multiple bonds Organized into 16 chapters this book begins with an overview of the interrelationships of various basic atomic properties This text then describes chemical bonding which can only occur when the nuclei of both atoms can attract the same electrons Other chapters consider the bond energy of multiple bonds which can be determined by calculating the energy in the usual way as though the bonds were single but of the experimental length This book discusses as well the reduction of the lone pair bond weakening effect through the formation of multiple bonds The final chapter deals with the relative roles of principles and practice in the teaching of inorganic and general chemistry This book is a valuable resource for chemists and students *Structure Polarity and Polarisability of Molecules* Robert Sowerby Armstrong, 1963 *Focusing Polar Molecules in a Hexapole Electric Field* Eugene Madison Jones, 1969 *Polarity Dependent Barriers and the Photoisomerization Dynamics of Polar Molecules in Solution* J. M. Hicks, M. T. Vandersall, E. V. Sitzmann, K. B. Eisenthal, COLUMBIA UNIV NEW YORK DEPT OF CHEMISTRY., 1986 To investigate the effects of the solvent on the photoisomerization kinetics of DMABN we have carried out studies in a series of linear alcohols alcohol alkane mixtures linear nitriles and nitrile alkane mixtures part of the data has been reported

Polarity Of Molecules Pogil Book Review: Unveiling the Power of Words

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