

Worksheet 13 – Intermolecular Forces

Chemical bonds are **intramolecular** forces, which hold atoms together as molecules.

Intermolecular forces exist **between** atoms and molecules, determining their **physical** properties; solubility, boiling points, melting points.

Intermolecular forces (IMF) can be ranked qualitatively using Coulomb's Law:

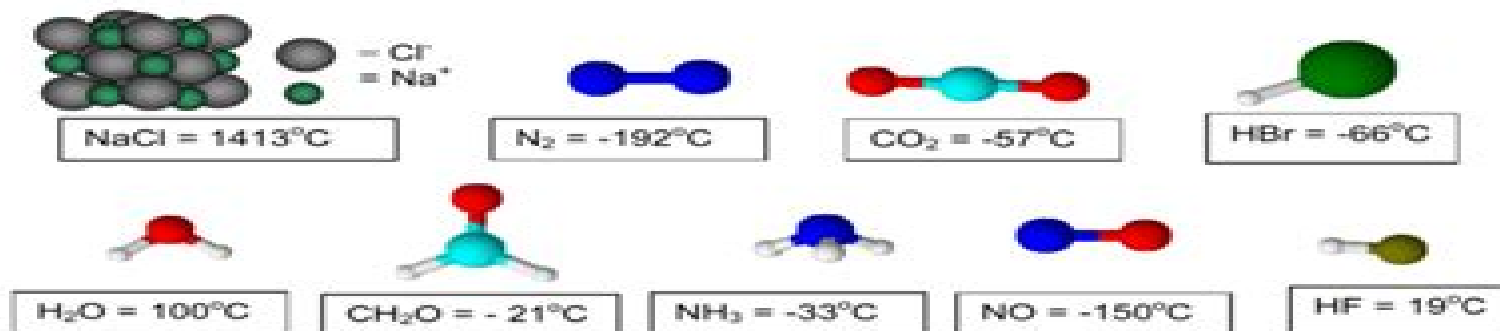
$$\text{force} \propto \frac{Q_1 Q_2}{r}$$

where Q_1 and Q_2 are charges and r is the distance between the charges.

The consequences are:

- the bigger the charges, the stronger the interaction
- the closer the charges, the stronger the interaction

Shown below are the structures and boiling points of nine chemical species. Use this information to answer the following questions.



1. Which species has the **highest** boiling point? _____

This is indicative of the **strongest IMF**.

- How does it differ from all of the other compounds?
- Look at Coulomb's law and identify each variable in the equation to the components of this species.
 Q_1 (positive charge) = _____ Q_2 (negative charge) = _____

This is called an _____ interaction (full positive and negative charges).

Intermolecular Forces Activity

Dr. RK Lohani



Intermolecular Forces Activity:

The Notion of Activity in Chemistry Jean-Louis Burgot, 2016-11-26 This book provides deep insight into the physical quantity known as chemical activity The author probes deep into classical thermodynamics in Part I and then into statistical thermodynamics in Part II to provide the necessary background The treatment has been streamlined by placing some background material in appendices Chemical Activity is of interest not only to those in chemical thermodynamics but also to chemical engineers working with mass transfer and its applications for example separation methods *Chemistry:*

Molecules, Matter, and Change Media Activities Book Loretta Jones, Carl Hoeger, Peter William Atkins, Regina Schoenfield-Tacher, 2000-01-15 The Media Activity Book MAB for Jones Atkins Chemistry molecules matter and change contains chapters with lists and descriptions of some of the media available as you study the chapter Each activity begins with a specific textbook reference Then you are given a time estimate of how long it will take to use the media An M media icon in the margin of the textbook means that media exists to support that area of text The media is found in three different places on the website and on two CDs A Life Scientist's Guide to Physical Chemistry Marc R. Roussel, 2012-04-05 Demonstrates how the tools of physical chemistry can be applied to biological questions with numerous exercises and clearly worked

examples *Britannica Lessons* , **COMMON FUNDAMENTALS AND UNIT OPERATIONS IN THERMAL DESALINATION SYSTEMS - Volume II** , 2010-11-08 These volumes are part of Encyclopedia of Water Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The three volumes present state of the art subject matter of various aspects of Common Fundamentals and Unit Operations in Thermal Desalination Systems such as Conventional Water Treatment Technologies Guidelines for Potable Water Purification Advanced Treatment Technologies for Recycle Reuse of Domestic Wastewater Composition of Desalinated Water Crystallization Deep Bed Filtration Modeling Theory and Practice Distillation Rectification Flocculation and Flocculation Filtration Hazardous Waste Treatment Technologies Microfiltration and Ultrafiltration Post Treatment of Distillate and Permeate Pre Cleaning Measures Filtration Raw Water Pre Treatment Sludge Treatment Technologies Supercritical Extraction Potential for Industrial Wastewater Reuse Treatment of Industrial Wastewater by Membrane Bioreactors Unconventional Sources of Water Supply Problem of Non Condensable Gas Release in Evaporators Entrainment in Evaporators Mist Eliminators Chemical Hazards in Seawater Desalination by the Multistage Flash Evaporation Technique Concentration of Liquid Foods Environmental Impact of Seawater Desalination Plants Environmental Impacts of Intakes and Out Falls Industrial Ecology Water Resources and Desalination Rural and Urban Water Supply and Sanitation Sustainable Development Water Supply and Sanitation Technology These volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy and Decision Makers **FCS Physical Science L3** Karen Morrison, 2008 **Advanced**

Thermodynamics Engineering, Second Edition Kalyan Annamalai, Ishwar K. Puri, Milind A. Jog, 2011-03-22 Advanced Thermodynamics Engineering Second Edition is designed for readers who need to understand and apply the engineering physics of thermodynamic concepts. It employs a self-teaching format that reinforces presentation of critical concepts, mathematical relationships, and equations with concrete physical examples and explanations of applications to help readers apply principles to their own real-world problems. Less Mathematical Theoretical Derivations More Focus on Practical Application. Because both students and professionals must grasp theory almost immediately in this ever-changing electronic era, this book now completely in decimal outline format uses a phenomenological approach to problems, making advanced concepts easier to understand. After a decade teaching advanced thermodynamics, the authors infuse their own style and tailor content based on their observations as professional engineers as well as feedback from their students. Condensing more esoteric material to focus on practical uses for this continuously evolving area of science, this book is filled with revised problems and extensive tables on thermodynamic properties and other useful information. The authors include an abundance of examples, figures, and illustrations to clarify presented ideas, and additional material and software tools are available for download. The result is a powerful practical instructional tool that gives readers a strong conceptual foundation on which to build a solid functional understanding of thermodynamics engineering.

Summary of Activities of the Committee on Science and Astronautics, U.S. House of Representatives, for the Ninety-third Congress United States. Congress. House. Committee on Science and Astronautics, 1974

Chemical Engineering and Chemical Process Technology - Volume II Ryszard Pohorecki, John Bridgwater, M. Molzahn, Rafiqul Gani and Crispulo Gallegos, 2010-11-30 Chemical Engineering and Chemical Process Technology is a theme component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS, which is an integrated compendium of twenty Encyclopedias. Chemical engineering is a branch of engineering dealing with processes in which materials undergo changes in their physical or chemical state. These changes may concern size, energy, content, composition, and/or other application properties. Chemical engineering deals with many processes belonging to chemical industry or related industries: petrochemical, metallurgical, food, pharmaceutical, fine chemicals, coatings, and colors, renewable raw materials, biotechnological, etc., and finds application in manufacturing of such products as acids, alkalis, salts, fuels, fertilizers, crop protection agents, ceramics, glass, paper, colors, dyestuffs, plastics, cosmetics, vitamins, and many others. It also plays a significant role in environmental protection, biotechnology, nanotechnology, energy production, and sustainable economical development. The Theme on Chemical Engineering and Chemical Process Technology deals in five volumes and covers several topics such as Fundamentals of Chemical Engineering, Unit Operations, Fluids, Unit Operations, Solids, Chemical Reaction Engineering, Process Development, Modeling, Optimization, and Control, Process Management, The Future of Chemical Engineering, Chemical Engineering Education, Main Products, which are then expanded into multiple subtopics, each as a chapter. These

five volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Integrating Engineering and Science in Your Classroom Eric Brunsell, 2012-09-15 From the very first day you use them the design challenges in this compendium will spur your students too to jump right in and engage throughout the entire class The activities reinforce important science content while illustrating a range of STEM skills The 30 articles have been compiled from NSTAOCOs journals for elementary through high school Next time you need an engaging STEM activity you will be glad you have this collection to help you blend meaningful and memorable experiences into your lessons

Lab Activities on CHE509, CHE510, CHE511 Mr. Rohit Manglik, 2024-03-03 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Microcompartmentation and Phase Separation in Cytoplasm, 1999-10-21 International Review of Cytology presents current advances and comprehensive reviews in cell biology both plant and animal Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth Authored by some of the foremost scientists in the field each volume provides up to date information and directions for future research This volume provides an overview of major cytoplasmic properties and events which including cytoarchitecture and the physical properties of cytoplasm molecular compartmentation and gradients channeling sorting and trafficking It also addresses physicochemical events both measured and anticipated which attend solutions under conditions prevailing in cytoplasm molecular crowding It summarizes the current state of knowledge in the field and considers questions such as how molecules in cytoplasm interact

Medicinal Chemistry Ashutosh Kar, 2005 The Qualified Success And General Appeal Of Medicinal Chemistry Is Not Only Confined To The Indian Subcontinent But It Has Also Won An Overwhelming Popularity In Other Parts Of The World Specific Care Has Been Taken To Maintain And Sustain The Fundamental Philosophy Of The Textbook Embracing Rigidly The Original Pattern And Style Of Presentation With A Particular Expatriated Treatment Of Synthesis Of Potential Medicinal Compounds For The Ultimate Benefits Of The Teachers And The Taught Alike The Present Thoroughly Revised And Skilfully Expanded Fourth Edition Essentially Contains Three New And Important Chapters Namely Molecular Modeling And Drug Design Chapter 3 Adrenocortical Steroids Chapter 24 And Antimycobacterial Agents Chapter 26 So As To Make The Textbook More Useful To Its Readers With The Advent Of Thirty Chapters The Present Updated Form Of Medicinal Chemistry Will Prove To Be An Asset For M Pharm B Pharm Degree Students M Sc Pharmaceutical Chemistry M Sc Applied Chemistry And M Sc Industrial Chemistry Throughout The Indian Universities Medicinal Chemistry Appears As A Newly Designed And Artistically Presented In A Two Colour Scheme So As To Facilitate A Distinctly More Effective Use Of The Book This Highly Readable Lucid Handy

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Concepts and Experimental Protocols of Modelling and Informatics in Drug Design Om Silakari, Pankaj Kumar Singh, 2020-11-05 Concepts and Experimental Protocols of Modelling and Informatics in Drug Design discusses each experimental protocol utilized in the field of bioinformatics focusing especially on computer modeling for drug development It helps the user in understanding the field of computer aided molecular modeling CAMM by presenting solved exercises and examples The book discusses topics such as fundamentals of molecular modeling QSAR model generation protein databases and how to use them to select and analyze protein structure and pharmacophore modeling for drug targets Additionally it discusses data retrieval system molecular surfaces and freeware and online servers The book is a valuable source for graduate students and researchers on bioinformatics molecular modeling biotechnology and several members of biomedical field who need to understand more about computer aided molecular modeling Presents exercises with solutions to aid readers in validating their own protocol Brings a thorough interpretation of results of each exercise to help readers compare them to their own study Explains each parameter utilized in the algorithms to help readers understand and manipulate various features of molecules and target protein to design their study

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Creative Chemists Simon Rees, Douglas Newton, 2020-06-29 Creative thinking be it that of the teacher or the student has tended to be overlooked in science but exercising it is important This book shows how it can be done in chemistry both in the context of creative chemistry teaching and in learning chemistry Going beyond principles and ideology readers will find practical strategies tools examples and case studies in a variety of contexts to bring creative thinking theory into practice Beginning with a discussion on the nature of creativity the authors debunk misconceptions and address the relationship between

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Chitosan-Based Hybrid Nanomaterials Nisar Ali, Muhammad Bilal, Adnan Khan, Tuan Anh Nguyen, 2024-03-06 Chitosan based hybrid nanomaterials for environmental remediation focuses on chitosan an abundantly occurring biopolymer to present possibilities for the removal of contaminants and a greener approach towards a cleaner environment combining nanotechnology with the deployment of naturally occurring materials to remedy environmental challenges This book fills up research gaps and the knowledge lagging in the context of chitosan based nanomaterials Considering the importance of naturally occurring materials with the applied knowledge of nanotechnology in the field of environmental restoration Covers properties synthesis and characterization of chitosan nanostructures and their utilization in the removal of contaminants Highlights the latest developments on the utilization of chitosan in environmental restoration Summarizes the importance of chitosan nanostructures for several applications

Elements Of Physics Dr. RK Lohani, 2022-12-09 After a long career as a physics teacher the author felt a need to write a book in such a way that the subject becomes easy to apprehend This book entitled Elements of Physics for Class XI is an attempt in this direction The book covers the syllabus of physics of class XI prescribed by the CBSE However the students of UP Punjab Haryana and Uttarakhand Boards will also find the book of great help The book is written in simple English diagrams are self explanatory and a sufficient number of solved and unsolved numerical problems have been given at the end of each topic covering a wide variety of questions Attempt has been made not to fill the book with unnecessary questions Few objective type questions have also been given in each topic to acquaint the students with the competitive exams Hints are given for solving some difficult problems Suggestion by the readers to improve the book will be highly appreciated and acknowledged

New Frontiers in Nanochemistry: Concepts, Theories, and Trends Mihai V. Putz, 2020-05-10 New Frontiers in Nanochemistry Concepts Theories and Trends Volume 1 Structural Nanochemistry is the first volume of the new three volume set that explains and explores the important concepts from various areas within the nanosciences This first volume focuses on structural nanochemistry and encompasses the general fundamental aspects of nanochemistry while simultaneously incorporating crucial material from other fields in particular mathematic and natural sciences with specific attention to multidisciplinary chemistry Under the broad expertise of the editor the volume contains 50 concise yet comprehensive entries from world renowned scholars alphabetically organizing a multitude of essential basic and advanced concepts ranging from algebraic chemistry to new energy technology from the bondonic theory of chemistry to spintronics and from

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