

Intermolecular Force Worksheet Key

1. Identify the strongest intermolecular force present in pure samples of the following substances:



dipole-dipole forces



hydrogen bonds



dipole-dipole forces



dipole-dipole forces



dipole-dipole forces



London dispersion forces

2. Identify the strongest intermolecular force operating in the condensed phases of the following substances. Fully explain how you determined this.

<p>a. Cl_2 London dispersion forces The Cl-Cl bond is nonpolar so the molecule is nonpolar. Non polar molecules have only London dispersion forces operating in the substance.</p>	<p>b. CO Dipole-dipole forces The C-O bond is polar so the molecule is polar. Polar molecules have dipole-dipole forces. They also have London dispersion forces, but dipole-dipole forces are stronger.</p>
<p>c. SO_2 Dipole-dipole forces SO_2 is a bent, polar molecule. The strongest intermolecular force in a polar molecule is the dipole-dipole force</p>	<p>d. CH_2Cl_2 Dipole-dipole forces The strongest intermolecular force in a polar molecule that cannot form hydrogen bonds is the dipole-dipole force</p>
<p>e. HF Hydrogen bonding forces Molecules that have hydrogen attached to an O, N, or F can form hydrogen bonds. These are the strongest of the intermolecular forces.</p>	<p>g. $\text{CH}_3\text{-O-CH}_3$ Dipole-dipole forces The hydrogen atoms are not bonded to the oxygen, so this molecule cannot form hydrogen bonds. It is polar, so it will have dipole-dipole forces.</p>

3. Based on the intermolecular forces present, predict the relative boiling points of each of the substances below. Arrange each series of substances in order of increasing boiling point. State your reasons for the order you use (identify the forces and explain how they affect the boiling point).

a. dimethyl ether (CH_3OCH_3), ethanol ($\text{CH}_3\text{CH}_2\text{OH}$), and propane ($\text{CH}_3\text{CH}_2\text{CH}_3$)

lowest bp: propane ($\text{CH}_3\text{CH}_2\text{CH}_3$) < dimethyl ether (CH_3OCH_3) < ethanol ($\text{CH}_3\text{CH}_2\text{OH}$) highest bp

Dimethyl ether cannot form hydrogen bonds (no O-H bond), but is polar and has dipole-dipole forces. Ethanol can form hydrogen bonds. propane is nonpolar, so it has only London dispersion forces. The boiling point increases as the strength of the intermolecular forces increase:

London dispersion < dipole-dipole forces < hydrogen bonds

Chem Activity Intermolecular Forces Key

MAKIO MURAYAMA



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Bioorganometallic Chemistry Gérard Jaouen, Michèle Salmain, 2015-04-20 An up to date reference reflecting the significant advances and important breakthroughs made in this emerging discipline over the last decade As such the book provides an overview of the latest developments and future trends in the field focusing on such applications as the development of potentially active organometallic drugs against incurable diseases as well as in such areas as catalysis energy analytical chemistry and imaging The renowned editor who established the term bioorganometallics and his international team of experts have put together a valuable resource for researchers in organometallic inorganic medicinal and biochemistry

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Frontiers in Physical Organic Chemistry Gennadii Efremovich Zaikov, 2006

Frontiers in Physical Organic Chemistry *The Concept of Micellar-Sponge Nanophases in Chemical Physics of Polymers* Yuri Arsenovich Mikheev, Gennady Zaikov, 2004-04-01 The monograph is intended for elucidation of the novel trend in chemical physics regarding the polymer non crystalline phase It stresses the physical phenomena affecting the kinetics and mechanism of chemical reactions proceeding in the non crystalline polymer matrix NCPM NCPM is depicted in terms of a supramolecular carcass micellar model The model is thought to reflect heterophase packing of polymeric chains which co operate as a molecular chain sponge The NCPM model presented is proved for adequate description of principal structure physical phenomena to elaborate the scheme of structural kinetic modeling of chemical reactions in bulky polymers Structure physical phenomena elucidated in the monograph are peculiarities of polymer plasticization and polymer blending with liquids structural and thermodynamic aspects of sorption of low molecular species properties of ESR spin probes and optical molecular probes features of water absorbed by polymers mechanical and thermal effects generated by the molecular chain sponge supramolecular aspects of NCPM chemical physics This monograph includes the structural kinetic modeling of complex polymer chemical reactions It deals with the problem of mechanism and kinetics of free radical chain reactions using thermal and photochemical model reactions of dibenzoyl peroxide with glassy like polymers cellulose triacetate polycarbonate polystyrene polyamide PA 548 viscoelastic polymers atactic polypropylene polyamide PA 548 polyethylene polyisobutylene melted poly ethylene oxide and isotactic polypropylene In all cases the supramolecular heterophase mechanism of the processes which was unknown for homogeneous systems was proved Furthermore heterophase mechanisms of photochemical reaction between naphthalene and cellulose triacetate and photolysis of poly methyl methacrylate proceeding as a photochain reaction are indicated

Polymer Hybrid Materials and Nanocomposites Tawfik Abdo Saleh, 2021-08-28 Polymer Hybrid Materials and Composites Fundamentals and Applications presents an introduction to the principles behind polymeric hybrid materials providing both theoretical and practical information on the synthesis and application of these materials It documents the latest innovations ranging from materials development and characterization

of properties to applications Sections cover the route from laboratory to industry providing practical actionable guidance to assist the scaling up process for applications in areas including energy technology solar cells water purification medical devices optical and electrical devices and more It is an essential introduction to the emerging technologies that are made possible by these advanced materials Documents the latest innovations in the technology thus enabling new applications Provides significant and detailed information on the engineering of hybrid materials for a wide range of areas including energy medical and electronics among others

Chemical Constitution and Biological Activity Wilfred Archibald Sexton, 1953 Macromolecules Metabolite antagonism Some physicochemical considerations The modification of drugs by living organisms The effects of specific chemical groupings Nicotinamide and riboflavin Aneurin p Animobenzoic acid and the sulphonamide drugs Pyrimidines purines and pterins Biotin pyridoxin pantothenic acid vitamin B12 The porphyrins Choline and its derivatives Quinones and quinonoid substances Symbiosis parasitism and antibiotics Some aspects of hormones Miscellaneous bactericides and fungicides Antiprotozoal drugs Insecticides and anthelmintics Cancer Plant growth regulations Antigens and antibodies

Nanotechnology to Monitor, Remedy, and Prevent Pollution Muhammad Bilal, Hafiz M. N. Iqbal, Ram K. Gupta, Tuan Anh Nguyen, Ghulam Yasin, 2024-06-04 For decades an increasingly rapid urbanization pace modern industrial development and constantly intensive agricultural practices have caused controlled or uncontrolled release of hazardous contaminants that seriously threaten our environment All natural spheres atmosphere hydrosphere biosphere lithosphere and anthroposphere seem to have been exposed to harmful practices and emerging research in nanomaterials is now trying to combat their adverse impact on physical ecosystems and organisms as well as human health In this context pollution remediation at the nanoscale has come to the forefront for its potential to unlock sustainable highly efficient and cost effective technologies capable to restore in situ or ex situ land water and air resources Nanotechnology to Monitor Remedy and Prevent Pollution covers design fabrication and extensive applications of engineered nanostructured materials in various shapes and morphologies such as nanoparticles wires tubes fibres that because of their size surface to volume ratio and high reactivity function as catalysts and adsorbents of organic pollutants aliphatic and aromatic hydrocarbons gases chemicals arsenic manganese iron nitrate heavy metals antibiotics and biological entities bacteria viruses parasites Their integration with biotechnological processes for monitoring and prevention of pollution is also explored alongside the invisible dangers caused by noise This is a valuable book for academics researchers undergraduate and postgraduate students working on environmental engineering for sustainability environmental sciences biotechnology and nanotechnology Comprehensively presents applications of state of the art nanotechnologies and nanomaterials for control prevention and removal of persistent air water and soil pollutants Provides a new benchmark for pros and cons of established processes for nano remediation revealing the importance of such research beyond national boundaries and policies Classifies noise as a contaminant and discusses how its real impacts on human and animal life can be limited through impedance matching

nanotechnology *Annual Review of Physical Chemistry* Henry Eyring, 1969-10 **Annual Review of Physical Chemistry**
,1969 **A STUDY OF THE ADENOSINE-TRIPHOSPHATASE ACTIVITY OF LEUCOCYTE NUCLEI FREE**
HOMOGENATES OF THE GUINEA PIG AND THE RAT. MAKIO MURAYAMA, 1953 **Journal of Chemical**
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Margoulies, Frederick C. Greenwood, 1972 **Pharmaceutical Nanotechnology** Jean Cornier, Andrew Owen, Arno
Kwade, Marcel Van de Voorde, 2016-11-28 Dieses Fachbuch legt den Schwerpunkt auf konkrete Methoden und die j ngsten
Fortschritte bei der Anwendung von Nanotechnologie f r die Entwicklung neuer medikament ser Therapieans tze und die
medizinische Diagnostik Von den Grundlagen der Nanopharmazie einschlie lich Charakterisierung und
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Science ,1898 **The Chemical News and Journal of Industrial Science** William Crookes, James H. Gardiner, Gerald
Druce, H. W. Blood-Ryan, 1898 *Chemical news and Journal of physical science* ,1898

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