

Substance	Lewis Structure	Molar Mass	Intermolecular Attractive Force
Methanol CH_3OH $12 + 3(1) + 16 + 1 = 32$	$\begin{array}{c} \text{H} \\ \\ \text{H} - \text{C} - \ddot{\text{O}} - \text{H} \\ \\ \text{H} \end{array}$	32.042	Hydrogen Bonds
Ethanol $\text{CH}_3\text{CH}_2\text{OH}$ $12 + 5 + 16 + 1 + 1 = 30$	$\begin{array}{c} \text{H} \quad \text{H} \quad \\ \quad \quad \\ \text{H} - \text{C} - \text{C} - \ddot{\text{O}} - \text{H} \\ \quad \\ \text{H} \quad \text{H} \end{array}$	46.068	Hydrogen Bonds
n-Butanol $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$	$\begin{array}{c} \text{H} \quad \text{H} \quad \text{H} \quad \text{H} \quad \text{H} \\ \quad \quad \quad \quad \\ \text{H} - \text{C} - \text{C} - \text{C} - \text{C} - \ddot{\text{O}} - \text{H} \\ \quad \quad \quad \\ \text{H} \quad \text{H} \quad \text{H} \quad \text{H} \end{array}$	74.122	Hydrogen Bonds
Glycerin $\text{C}_3\text{H}_8(\text{OH})_3$ $12 + 5 + 18 + 3 = 38$	$\begin{array}{c} \text{H} \quad \text{:}\ddot{\text{O}}\text{:} - \text{H} \quad \text{H} \\ \quad \quad \\ \text{H} - \text{C} - \text{C} - \text{C} - \text{H} \\ \quad \quad \\ \text{:}\ddot{\text{O}}\text{:} - \text{H} \quad \text{H} \quad \text{:}\ddot{\text{O}}\text{:} - \text{H} \end{array}$	92.093	Hydrogen Bonds
Water H_2O	$\begin{array}{c} \text{H} \\ \\ \text{H} - \ddot{\text{O}} - \text{H} \\ \\ \text{H} \end{array}$	18.015	Hydrogen Bonds

Exploring Intermolecular Forces Lab Answers

William G. O'Neal



Exploring Intermolecular Forces Lab Answers:

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

Exploring General, Organic, & Biochemistry in the Laboratory William G. O'Neal, 2017-02-01 This full color comprehensive affordable manual is appropriate for two semester introductory chemistry courses It is loaded with clearly written exercises critical thinking questions and full color illustrations and photographs providing ample visual support for experiment set up technique and results

Exploring Chemistry (Loose-Leaf) Matthew Johll, 2012-05-04 Matthew Johll's *Exploring Chemistry* covers the standard topics for the nonmajors course in the typical order but each chapter unfolds in the context of a single case study that helps students connect what they are learning to real life situations For example students work through the often difficult topics of molecular structure gas laws and organic chemistry by learning about the development of powerful new chemotherapy drugs new technologies for screening airline passengers and the creation of biodegradable biopolymers It's the same case driven approach that Johll uses in his acclaimed *Investigating Chemistry* now in its Third Edition but *Exploring Chemistry* goes beyond the other book's specific focus on examples from forensic science to use real life stories from cooking athletics genetics green chemistry and more

ChemDiscovery Lab Manual Olga I. Agapova, 2002

Lab-At-Home Experiments in Chemistry and Chemical Engineering Jude A. Okolie, Ugochukwu Patrick Okoye, 2025-10-28 With the rise of remote and hybrid learning there is an increasing need for flexibility around laboratory based coursework This book offers readers a guide to conducting a wide variety of chemistry and chemical engineering labs and experimental procedures that can be completed easily and safely outside of a traditional lab setting including at home It helps students and interested readers achieve hands on learning of chemistry and chemical engineering based concepts without the need for sophisticated lab equipment Features a comprehensive range of labs on such topics as separation processes CO₂ capture 3D printing reaction kinetics and fuel cells Includes detailed information on how to perform experiments at home via virtual experimental procedures and accompanying videos Uses household and readily accessible materials and provides safe material handling and disposal methods Offers solution spreadsheets where experimental results can be computed and validated Gives background information and relevant theory about each experiment and includes exercises at the end of each chapter Provides Python code and instructions on how to perform experiments including a bowling example This practical and useful

guide is aimed at chemistry and chemical engineering students as well as general readers interested in running experiments in these disciplines Video supplements to support comprehension of each lab and a solutions spreadsheet for Chapter 1 are available for download

General, Organic, and Biochemistry Lab Manual Sara Selfe, 2006-01-12 Offers a choice of classic chemistry experiments and innovative ones All of them place special emphasis on the biological implications of chemical concepts Available for custom publishing at <http://custompub.whfreeman.com>

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Experiences and Research on Enhanced Professional Development Through Faculty Learning Communities Blankenship, Rebecca J., Wiltsher, Cheree Y., Moton, Brandon A., 2022-06-24 Faculty learning communities are

a fairly new ideology that is gaining traction among educators and institutions These communities have numerous benefits on professional development such as enhancing educator preparedness and learning The possibilities of these communities are endless however further study is required to understand how these learning communities work and the best practices and challenges they face Experiences and Research on Enhanced Professional Development Through Faculty Learning Communities shares the experiences and research related to the enhanced professional development received by university faculty and staff participating in a series of collaborative faculty learning communities The book using qualitative quantitative and mixed methodologies considers educator experiences as participants in the faculty learning communities what they learned and how they applied and implemented best practices in their courses Covering topics such as curricula course design and rubrics this reference book is ideal for administrators higher education professionals program developers program directors researchers academicians scholars practitioners instructors and students

Energy Research Abstracts ,1993 *ERDA Energy Research Abstracts* ,1983 **Air Force Research Resumés** , **Subject Index to Unclassified ASTIA Documents** Defense Documentation Center (U.S.),1960 **Grants and Awards** ,1972 *Interfacial Convection in Multilayer Systems* A. Nepomnyashchy,I. Simanovskii,J.C. Legros,2011-12-27 This book gives a systematic investigation of convection in systems comprised of liquid layers with deformable interfaces This new edition includes completely updated and new material on flows in ultra thin films and brings up to date progress made in the technology on micro and nano scales Also this revised edition will reflect progress in the dynamics of complex fluids **Chemistry in the Community** American Chemical Society,2006-01-31 This laboratory based text centres itself around decision making activities where students apply their chemistry knowledge to realistic situations This fifth edition includes more photographs new drawings and new design Water Resources Research Catalog ,1966 **Nuclear Science Abstracts** ,1953

Chemists' Guide to Effective Teaching Norbert J. Pienta,Melanie M. Cooper,Thomas J. Greenbowe,2005 For courses in Methods of Teaching Chemistry Useful for new professors chemical educators or students learning to teach chemistry Intended for anyone who teaches chemistry or is learning to teach it this book examines applications of learning theories presenting actual techniques and practices that respected professors have used to implement and achieve their goals Each chapter is written by a chemist who has expertise in the area and who has experience in applying those ideas in their classrooms This book is a part of the Prentice Hall Series in Educational Innovation for Chemistry **Scientific and Technical Aerospace Reports** ,1988-04

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