
Experiment 13 – Properties of Amines and Amides

Discussion

Amines and amides are two classes of organic compounds that contain nitrogen. Amines behave as organic bases and may be considered derivatives of ammonia. Amides are compounds that have a carbonyl group connected to a nitrogen atom and are neutral. In this experiment, you will learn about the physical and chemical properties of some members of the amine and amide families.

If the hydrogens of ammonia are replaced by alkyl or aryl groups, amines result. Depending on the number of carbon atoms bonded directly to nitrogen, amines are classified as either primary (one carbon atom), secondary (two carbon atoms), or tertiary (three carbon atoms). Consider the following examples:



There are a number of similarities between ammonia and amines that carry beyond the structure such as odor. The smell of amines resembles that of ammonia but is not as sharp. However, amines can be quite pungent. Anyone handling or working with raw fish knows how strong the amine odor can be: raw fish contains low molecular weight amines such as dimethylamine and trimethylamine. Other amines associated with decaying flesh have names suggestive of their odors: consider putrescine and cadaverine shown below.



The solubility of low molecular weight amines in water is high. In general, if the total number of carbons attached to nitrogen is four or less, the amine is water soluble; amines with a carbon content greater than four are water insoluble. However, all amines are soluble in organic solvents such as diethyl ether or dichloromethane.

Because amines are organic bases, water solutions show weakly basic properties. If the basicity of aliphatic amines and aromatic amines is compared to that of ammonia, aliphatic amines are stronger than ammonia, while aromatic amines are weaker. Amines characteristically react with acids to form ammonium salts; the nonbonded electron pair on nitrogen bonds the hydrogen ions:



Chemistry 11 Lab Manual Answers

Morris Hein, Susan Arena



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Laboratory Manual of Physiological Chemistry Meyer Bodansky, Marion Spencer Fay, 1928

Digital Learning and Teaching in Chemistry Yehudit Dori, Courtney Ngai, Gabriela Szeinberg, 2023-07-12 Education is always evolving and most recently has shifted to increased online or remote learning Digital Learning and Teaching in Chemistry compiles the established and emerging trends in this field specifically within the context of learning and teaching in chemistry This book shares insights about five major themes best practices for teaching and learning digitally digital learning platforms virtual visualisation and laboratory to promote learning in science digital assessment and building communities of learners and educators The authors are chemistry instructors and researchers from nine countries contributing an international perspective on digital learning and teaching in chemistry While the chapters in this book span a wide variety of topics as a whole they focus on using technology and digital platforms as a method for supporting inclusive and meaningful learning The best practices and recommendations shared by the authors are highly relevant for modern chemistry education as teaching and learning through digital methods is likely to persist Furthermore teaching chemistry digitally has the potential to bring greater equity to the field of chemistry education in terms of who has access to quality learning and this book will contribute to that goal This book will be essential reading for those working in chemical education and teaching Yehudit Judy Dori is internationally recognised formerly Dean of the Faculty of Education of Science and Technology at the Technion Israel Institute of Technology and won the 2020 NARST Distinguished Contributions to Science Education through Research Award DCRA for her exceptional research contributions Courtney Ngai and Gabriela Szeinberg are passionate researchers and practitioners in the education field Courtney Ngai is the Associate Director of the Office of Undergraduate Research and Artistry at Colorado State University Gabriela Szeinberg serves as Assistant Dean and Academic Coordinator for the College of Arts and Sciences at Washington University in St Louis

General, Organic, and Biological Chemistry Study Guide and Selected Solutions Karen C. Timberlake, 2001-11
 Keyed to the learning goals in the text this guide is designed to promote active learning through a variety of exercises with answers and mastery exams The guide also contains complete solutions to odd numbered problems

Foundations of College Chemistry Morris Hein, Susan Arena, 2013-01-01 Learning the fundamentals of chemistry can be a difficult task to undertake for health professionals For over 35 years Foundations of College Chemistry Alternate 14th Edition has helped readers master the chemistry skills they need to succeed It provides them with clear and logical explanations of chemical concepts and problem solving They ll learn how to apply concepts with the help of worked out examples In addition Chemistry in Action features and conceptual questions checks brings together the understanding of chemistry and relates chemistry to things health professionals experience on a regular basis

Cooperative Chemistry Lab Manual Cooper, 2005-02 The laboratory course described in the lab manual emphasizes experimental design data analysis and problem solving Inherent in the design is the emphasis on communication skills both written and oral Students work in groups on open ended projects in which they are given an initial scenario and then asked to investigate a problem There are no formalized instructions and students must plan and carry out their own investigations

The Organic Chem Lab Survival Manual James W. Zubrick, 2016-01-19 Written for the laboratory that accompanies the sophomore junior level courses in Organic Chemistry Zubrick provides students with a valuable guide to the basic techniques of the Organic Chemistry lab The book will help students understand and practice good lab safety It will also help students become familiar with basic instrumentation techniques and apparatus and help them master the latest techniques such as interpretation of infrared spectroscopy The guide is mostly macroscale in its orientation

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AAAS Science Book List, 1978-1986 Kathryn Wolff, Susan M. O'Connell, Valerie J. Montenegro, 1986 A selected and annotated list of science and mathematics books which supplements the AAAS science book list 3rd ed 1970 and the AAAS science book list supplement 1978

The Publishers Weekly , 1911

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Table of Contents Chemistry 11 Lab Manual Answers

1. Understanding the eBook Chemistry 11 Lab Manual Answers
 - The Rise of Digital Reading Chemistry 11 Lab Manual Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry 11 Lab Manual Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chemistry 11 Lab Manual Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry 11 Lab Manual Answers
 - Personalized Recommendations
 - Chemistry 11 Lab Manual Answers User Reviews and Ratings
 - Chemistry 11 Lab Manual Answers and Bestseller Lists
5. Accessing Chemistry 11 Lab Manual Answers Free and Paid eBooks
 - Chemistry 11 Lab Manual Answers Public Domain eBooks
 - Chemistry 11 Lab Manual Answers eBook Subscription Services
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6. Navigating Chemistry 11 Lab Manual Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Chemistry 11 Lab Manual Answers Compatibility with Devices
 - Chemistry 11 Lab Manual Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chemistry 11 Lab Manual Answers
 - Highlighting and Note-Taking Chemistry 11 Lab Manual Answers
 - Interactive Elements Chemistry 11 Lab Manual Answers

8. Staying Engaged with Chemistry 11 Lab Manual Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chemistry 11 Lab Manual Answers
9. Balancing eBooks and Physical Books Chemistry 11 Lab Manual Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chemistry 11 Lab Manual Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chemistry 11 Lab Manual Answers
 - Setting Reading Goals Chemistry 11 Lab Manual Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chemistry 11 Lab Manual Answers
 - Fact-Checking eBook Content of Chemistry 11 Lab Manual Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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