

## EXPERIMENT - Verification of Charles' Law

Name: \_\_\_\_\_

Day: \_\_\_\_\_ Instructor: \_\_\_\_\_

## LABORATORY REPORT FORM

Run #	1	2	3
1. Temperature of hot water bath	<u>98.5</u>	<u>100.2</u>	<u>101.6</u> °C
			K
2. Temperature of cold water bath	<u>0.6</u>	<u>18.3</u>	<u>43.3</u> °C
			K
3. Volume of water sucked into flask	<u>36.6</u>	<u>24.2</u>	<u>17.1</u> mL
4. Volume of water when flask is full	<u>139.9</u>	<u>140.6</u>	<u>142.1</u> mL

## Calculations:

5. Volume of hot air = Volume of water when flask is full \_\_\_\_\_ mL
6. Volume of cold air as measured (no. 5. - no. 3.) \_\_\_\_\_ mL
7. Volume of cold air as predicted by Charles' Law \_\_\_\_\_ mL
8. Percent difference \_\_\_\_\_ %
9. Average value for percent difference \_\_\_\_\_ %
10. Graph value for absolute zero \_\_\_\_\_ °C

Staple your Graph to this Lab Report Form.

# **Chem 1108 Lab Manual Answers**

**Rongsun Pu, H. Bruce Reid**



Chem 1108 Lab Manual Answers

**Chemistry, with Study Guide/Solutions Manual Lab Manual Gen Chem 10E for St. John's University and WileyPLUS Set** James E. Brady, 2009-08-03

*Investigating Chemistry Lab Manual + Student Solutions Manual* Matthew Joll, David Collins, Jason Powell, 2008-12-31

**Chemistry Plus Complete Solutions Manual Plus Lab Manual 7th Edition** Steven S. Zumdahl, 2006-04-01

**Principles of Biology** Rongsun Pu, H. Bruce Reid, 2013-08-13

*Advanced Organic Chemistry* Francis A. Carey, Richard J. Sundberg, 2007-06-27 The two part fifth edition of *Advanced Organic Chemistry* has been substantially revised and reorganized for greater clarity The material has been updated to reflect advances in the field since the previous edition especially in computational chemistry Part A covers fundamental structural topics and basic mechanistic types It can stand alone together with Part B Reaction and Synthesis the two volumes provide a comprehensive foundation for the study in organic chemistry Companion websites provide digital models for study of structure reaction and selectivity for students and exercise solutions for instructors

**Purification of Laboratory Chemicals** W.L.F. Armarego, 2003-03-07 Now in its fifth edition the book has been updated to include more detailed descriptions of new or more commonly used techniques since the last edition as well as remove those that are no longer used procedures which have been developed recently ionization constants pKa values and also more detail about the trivial names of compounds In addition to having two general chapters on purification procedures this book provides details of the physical properties and purification procedures taken from literature of a very extensive number of organic inorganic and biochemical compounds which are commercially available This is the only complete source that covers the purification of laboratory chemicals that are commercially available in this manner and format Complete update of this valuable well known reference Provides purification procedures of commercially available chemicals and biochemicals Includes an extremely useful compilation of ionisation constants

*Density Functional Theory* David S. Sholl, Janice A. Steckel, 2011-09-20 Demonstrates how anyone in math science and engineering can master DFT calculations Density functional theory DFT is one of the most frequently used computational tools for studying and predicting the properties of isolated molecules bulk solids and material interfaces including surfaces Although the theoretical underpinnings of DFT are quite complicated this book demonstrates that the basic concepts underlying the calculations are simple enough to be understood by anyone with a background in chemistry physics engineering or mathematics The authors show how the widespread availability of powerful DFT codes makes it possible for students and researchers to apply this important computational technique to a broad range of fundamental and applied problems *Density Functional Theory A Practical Introduction* offers a concise easy to follow introduction to the key concepts and practical applications of DFT focusing on plane wave DFT The authors have many years of experience introducing DFT to students from a variety of backgrounds The book therefore offers several features that have proven to be helpful in enabling students to master the subject including Problem sets in each chapter that give readers the opportunity to test their knowledge by performing their own calculations Worked examples that demonstrate how DFT calculations are used to solve real world problems Further readings listed in each chapter enabling readers to investigate specific topics in greater depth This text is written at a level suitable for individuals from a variety of scientific mathematical and engineering backgrounds No previous experience working with DFT calculations is needed

**Handbook of Occupational Groups and Families** ,1998

*Comprehensive Organic Chemistry Experiments for the Laboratory Classroom* Carlos A. M. Afonso,Nuno R. Candeias,Dulce Pereira Simão,Alexandre F. Trindade,Jaime A. S. Coelho,Bin Tan,Robert Franzén,2016-12-16 This expansive and practical textbook contains organic chemistry experiments for teaching in the laboratory at the undergraduate level covering a range of functional group transformations and key organic reactions The editorial team have collected contributions from around the world and standardized them for publication Each experiment will explore a modern chemistry scenario such as sustainable chemistry application in the pharmaceutical industry catalysis and material sciences to name a few All the experiments will be complemented with a set of questions to challenge the students and a section for the instructors concerning the results obtained and advice on getting the best outcome from the experiment A section covering practical aspects with tips and advice for the instructors together with the results obtained in the laboratory by students has been compiled for each experiment Targeted at professors and lecturers in chemistry this useful text will provide up to date experiments putting the science into context for the students

*Space Shuttle Missions Summary (NASA/TM-2011-216142)* Robert D. Legler,Floyd V. Bennett,2011-09-01 Full color publication This document has been produced and updated over a 21 year period It is intended to be a handy reference document basically one page per flight and care has been exercised to make it as error free as possible This document is basically as flown data and has been compiled from many sources including flight logs flight rules flight anomaly logs mod flight descent summary post flight analysis of mps propellants FDRD FRD SODB and the MER shuttle flight data and inflight anomaly list Orbit distance traveled is taken from the PAO mission statistics

**College Science Teachers Guide to Assessment** Thomas R. Lord,Donald P. French,Linda W. Crow,2009 Provides a quick reference for promoting student reflection after exams encouraging student led teaching models and looking at exam corrections from both instructor and student perspectives This guide is divided into four sections comprising 28 peer reviewed chapters It covers general assessment topics and traditional and alternative assessment techniques A series of how to assessment practices utilized in the field and practical tips to enhance assessment in the college science classroom are included

**Biology 2e** Mary Ann Clark,Jung Ho Choi,Matthew M. Douglas,2018-03-28 Biology 2e is designed to cover the scope and sequence requirements of a typical two semester biology course for science majors The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens Biology includes rich features that engage students in scientific inquiry highlight careers in the biological sciences and offer everyday applications The book also includes various types of practice and homework questions that help students understand and apply key concepts

*Nutrient Requirements of Laboratory Animals*, National Research Council, Board on Agriculture, Committee on Animal Nutrition, Subcommittee on Laboratory Animal Nutrition, 1995-02-01 In the years since the third edition of this indispensable reference was published a great deal has been learned about the nutritional requirements of common laboratory species rat mouse guinea pig hamster gerbil and vole The Fourth Revised Edition presents the current expert understanding of the lipid carbohydrate protein mineral vitamin and other nutritional needs of these animals The extensive use of tables provides easy access to a wealth of comprehensive data and resource information The volume also provides an expanded background discussion of general dietary considerations In addition to a more user friendly organization new features in this edition include A significantly expanded section on dietary requirements for rats reporting substantial new findings A new section on nutrients that are not required but that may produce beneficial results New information on growth and reproductive performance among the most commonly used strains of rats and mice and on several hamster species An expanded discussion of diet formulation and preparation including sample diets of both purified and natural ingredients New information on mineral deficiency and toxicity including warning signs This authoritative resource will be important to researchers laboratory technicians and manufacturers of laboratory animal feed

The Toolbox Revisited Clifford Adelman, 2006 The Toolbox Revisited is a data essay that follows a nationally representative cohort of students from high school into postsecondary education and asks what aspects of their formal schooling contribute to completing a bachelor's degree by their mid 20s The universe of students is confined to those who attended a four year college at any time thus including students who started out in other types of institutions particularly community colleges

*Gabbard's Treatments of Psychiatric Disorders* Glen O. Gabbard, 2014-05-05 The definitive treatment textbook in psychiatry this fifth edition of Gabbard's *Treatments of Psychiatric Disorders* has been thoroughly restructured to reflect the new DSM 5 categories preserving its value as a state of the art resource and increasing its utility in the field The editors have produced a volume that is both comprehensive and concise meeting the needs of clinicians who prefer a single user friendly volume In the service of brevity the book focuses on treatment over diagnostic considerations and addresses both empirically validated treatments and accumulated clinical wisdom where research is lacking Noteworthy features include the following Content is organized according to DSM 5 categories to make for rapid retrieval of relevant treatment information for the busy clinician Outcome studies and expert opinion are presented in an accessible way to help the clinician know what treatment to use for which disorder and how to tailor the treatment to the patient Content is restricted to the major psychiatric conditions seen in clinical practice while leaving out less common conditions and those that have limited outcome research related to the disorder resulting in a more streamlined and affordable text Chapters are meticulously referenced and include dozens of tables figures and other illustrative features that enhance comprehension and recall An authoritative resource for psychiatrists psychologists and psychiatric nurses and an outstanding reference for students in the mental health professions *Gabbard's Treatments of Psychiatric Disorders* Fifth Edition will prove indispensable to clinicians seeking to provide excellent care while transitioning to a DSM 5 world

**Introduction to Microbiology for the Health Sciences** Marcus M. Jensen, Donald N. Wright, 1993 Using simple terminology and avoiding complex and confusing details this text offers a complete clinically oriented overview of basic medical microbiology It covers information that is essential to understanding how micro organisms cause disease and provides a taxonomic approach to organism presentation using a pathogen oriented sequence that provides an understanding of the microbe in its setting regardless of the site of infection

**Advances in Teaching Organic Chemistry** Kimberly A. O. Pacheco, Jetty L. Duffy-Matzner, 2013-08-15 Discusses the latest thinking in the approach to teaching Organic Chemistry

**CRC Standard Mathematical Tables and Formulae, 32nd Edition** Daniel Zwillinger, 2011-06-22 With over 6 000 entries CRC Standard Mathematical Tables and Formulae 32nd Edition continues to provide essential formulas tables figures and descriptions including many diagrams group tables and integrals not available online This new edition incorporates important topics that are unfamiliar to some readers such as visual proofs and sequences and illustrates how mathematical information is interpreted Material is presented in a multisectional format with each section containing a valuable collection of fundamental tabular and expository reference material New to the 32nd Edition A new chapter on Mathematical Formulae from the Sciences that contains the most important formulae from a variety of fields including acoustics astrophysics epidemiology finance statistical mechanics and thermodynamics New material on contingency tables estimators process capability runs test and sample sizes New material on cellular automata knot theory music quaternions and rational trigonometry Updated and more streamlined tables Retaining the successful format of previous editions this comprehensive handbook remains an invaluable reference for professionals and students in mathematical and scientific fields

**Medical Books and Serials in Print, 1979** R. R. Bowker LLC, 1979-05

**Fundamentals of Nursing (Book Only)** Sue Carter DeLaune, Patricia Kelly Ladner, 2010-02-18

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web 2 days ago reflection is one of the distinctive properties of light it is the reflection of light which enables us to see anything light reflection occurs when a ray of light meets a smooth polished surface and reflects back the incident light ray is said to be reflected off the surface when it lands on it the beam that rebounds is known as the

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web i 4 is the image of an image the image of  $i_1$  as reflected across mirror  $m_2$  a quick measurement will reveal that the distance from  $i_1$  to mirror  $m_2$  is equal to the distance from image  $i_3$  to mirror  $m_2$  when viewing the secondary images  $i_3$  and  $i_4$  light will reflect off both mirrors

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web aug 19 2020 list the sign conventions for reflection of light by spherical mirrors draw a diagram and apply these conventions in the determination of focal length of a spherical mirror which forms a three times magnified real image of an object placed 16 cm in front of it cbse 2012 answer sign conventions for reflection of light by spherical mirror are

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web answer and explanation the path of the reflected ray at each boundary can be determined by sketching a normal at the point where the incident ray strikes the mirror surface once the normal is constructed the angle of incidence can be measured for instance the black dashed line at the location where ray 1 strikes the mirror is the

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web as the angle of incidence is increased for a ray incident on a reflecting surface the angle between the incident and reflected rays ultimately approaches what value a zero b 45 degrees c 90 degrees d 180 degrees answer d the angle of incidence is the angle between the incident ray and the normal

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