

CHEMISTRY (CHEM 103) LAB REPORT 8 | PORTAGE LEARNING|WITH PROCEDURES, EXPLANATION AND FINAL RESULTS/ VERIFIED/LATEST UPDATE 2024-2025

Chemistry Lab Report

Experiment # 8

Title: Molecular Mass

Purpose: In this lab we will determine the molar mass of an unknown solute by its freezing point depression.

Procedure:

1. Measure out 10 ml of cyclohexane (the solvent). We will get the molar mass of the (Solute) of the unknown substance. Pour the cyclohexane into the testtube and fit it with a stopper. The stopper has a hole for the wire (stirrer) and thermometer.
2. Insert testtube into ice (mixture of ice and salt). Create a cold bath and let the cyclohexane cool down and let the bottom freeze. Wait till there are a nice number of crystals on the bottom part that are frozen really well.
3. Clamp testtube . The initial temperature is 6.6C , read and record temperature every 30 seconds and create a warming plot to see freezing point. 30 seconds- 6.6c 120 seconds-7 C 8 minutes 11.4 C

Cyclohexane: Warming Curve



4. Started at 6.6 C fully frozen and leveled off at 6.6 and stayed there after 2

Pkgacp Chemistry Lab Experiments Chemistry 103

Sally Ann Vonderbrink



Pkgacp Chemistry Lab Experiments Chemistry 103:

Chemistry 103/104 University of Wisconsin--Madison. Department of Chemistry,1999 **Chemistry 103 Lab Manual, 7th Ed** ,2012 Pkg Acp Chem 232 Lab Manual Ne Illinois Brooks/Cole,2016-08-30 **Chemistry 101/103 Lab Manual, 5E** ,2010 *Laboratory Experiments for General Chemistry* H. R. Hunt,T. F. Block,1990 **Laboratory Practice** Josiah Parsons Cooke (Jr.),1891 *Experiments in General Chemistry, Lab Manual* Rupert Wentworth,Barbara H. Munk,2012-03-09 Each experiment in this manual was selected to match topics in the textbook and includes an introduction a procedure a page of pre lab exercises about the concepts the lab illustrates and a report form Some have a scenario that places the experiment in a real world context In addition each experiment has a link to a set of references and helpful online resources **General Chemistry Experiments** Jerry L. Mills,Roy E. Mitchell,1979-07 Pkg Acp-Chem 114 Lab Neidig,2002-07-01 **Lab Experiments for AP Chemistry Student Edition 2nd Edition** Flinn Scientific, Incorporated,2007 **Experimental Physical Chemistry** Arthur Halpern,George McBane,2006-06-30 Experimental Physical Chemistry includes complete lists of necessary materials detailed background material for each experiment and relevant sections on measurements and error analysis **Laboratory Experiments for Chemistry, the Central Science, 5th Ed** John Henry Nelson,1991 **Chemistry** Theodore L. Brown,2002 The acknowledged leader and standard in general chemistry this book maintains its effective and proven features clarity of writing scientific integrity currency strong exercises visual emphasis and consistency in presentation It offers readers an integrated educational solution to the challenges of the learning with an expanded media program that works in concert with the book helping them to approach problem solving visualization and applications with greater success Chapter topics cover Matter and Measurement Atoms Molecules and Ions Stoichiometry Calculations with Chemical Formulas and Equations Aqueous Reactions and Solution Stoichiometry Thermochemistry Electronic Structure of Atoms Periodic Properties of the Elements Basic Concepts of Chemical Bonding Molecular Geometry and Bonding Theories Gases Intermolecular Forces Liquids and Solids Modern Materials Properties of Solutions Chemical Kinetics Chemical Equilibrium Acid Base Equilibria Additional Aspects of Equilibria Chemistry of the Environment Chemical Thermodynamics Electrochemistry Nuclear Chemistry Chemistry of the Nonmetals Metals and Metallurgy Chemistry of Coordination Compounds and The Chemistry of Life Organic and Biological Chemistry For individuals interested in the study of general chemistry *CHEMISTRY EXPERIMENTS* James Signorelli,2014-09-19 Gifted and talented students and any student interested in pursuing a science major in college needs a rigorous program to prepare them while they are still in high school This book utilizes a format where the application of several disciplines science math and language arts principles are mandated Each lab concludes with either an essay or a detailed analysis of what happened and why it happened This format is based on the expectations of joining a university program or becoming an industrial science professional The ideal student lab report would be written in a lab research notebook and then the essay or final

analysis is done on a word processor to allow for repeat editing and corrections The research notebook has all graph pages a title section and a place for the students and their assistants to sign and witness that exercise The basic mechanics of the lab report title purpose procedure diagrams data table math and calculations observations and graphs are handwritten into the book The conclusion is done on a word processor MS Word which allows the instructor to guide the student in writing and editing a complete essay using the MLA format When the final copy is completed the essay is printed and inserted into the lab notebook for grading At the end of the term the student has all their labs in one place for future reference These lab notebooks can be obtained for as little as 3 00 per book This is money well spent In our district the Board of Education buys the books for each student The BOE sees these books as expendable but necessary materials for all science and engineering instruction

General Chemistry Lab Experiments Peter Wong,Paris Svoronos,Pedro Irigoyen,Frank Rudo,2011-01-07

Experiments in Physical Chemistry J. M. Wilson,R. J. Newcombe,A. R. Denaro,2016-06-06 Experiments in Physical Chemistry aims to facilitate experimental work in the physical chemistry laboratory at every stage of a student s career The book is organized into three parts Part I consists of those experiments that have a simple theoretical background Part II consists of experiments that are associated with more advanced theory or more recently developed techniques or that require a greater degree of experimental skill The last part contains experiments that are in the nature of investigations This book will be useful to students to gain confidence in his ability to perform a physical chemistry experiment and to appreciate the value of the experimental approach

Laboratory Experiments for Advanced Placement Chemistry Sally Ann Vonderbrink,2001 Lab Manual Experiments in General Chemistry Darrell Ebbing,Steven D. Gammon,2016-03-16 Each experiment in this manual was selected to match topics in your textbook and includes an introduction a procedure a page of pre lab exercises about the concepts the lab illustrates and a report form Some have a scenario that places the experiment in a real world context For this edition minor updates have been made to the lab manual to address some safety concerns

Laboratory Experiments in General Chemistry Anthony J. Pappas,Larry E. Bray,Miami-Dade Community College, Kendall campus,1998 **Chemistry 101/103 Laboratory Manual** ,2009

Pkgacp Chemistry Lab Experiments Chemistry 103 Book Review: Unveiling the Power of Words

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l'offensive finale de la guerre d'Espagne se déroule du 26 mars au 1er avril 1939 et voit la chute de la seconde république espagnole dirigée par une junte militaire sous l'autorité du colonel Segismundo Casado après son coup d'État contre le gouvernement du premier ministre Juan Negrín le 6 mars de la même année avec la prise de

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l'intérêt porté à cet événement tient bien sûr à sa durée de juillet 1936 à fin mars 1939 mais aussi à ses caractères nationaux et internationaux et à ses enjeux à sa fonction de laboratoire

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jun 2 2021 de 1936 à 1939 une guerre civile oppose le gouvernement espagnol à une insurrection nationaliste dirigée par le général Franco compte tenu de la situation géopolitique de l'Europe le conflit s'internationalise très vite Charlotte Chaulin

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le 18 juillet 1936 alors que l'Espagne vit les premières heures d'un coup d'État militaire le lieutenant colonel Henri Morel

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le 17 juillet 1936 au Maroc un jeune général prénommé Franco mène un coup d'État avec une partie des militaires les troupes du Maroc débarquent l'Espagne se coupe alors en deux entre les régions soutenant le régime républicain et les autres qui rejoignent les nationalistes

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