

CHE 223 Lab Report

Ysatis M. Fenner

Title:

Recrystallization of Benzil

Performed: September 28th, 2018

Submitted: October 8th, 2018

Abstract:

- In organic chemistry, the most important method of purifying a solid is crystallization. This experiment involved performing the steps of crystallization using the solid Benzil with methanol. The goal of this experiment was to purify the rudimentary compound of Benzil which will be done using a laboratory technique known as recrystallization. The seven steps of crystallization include choosing a solvent, dissolving the solute, decolorizing the solution, filtration, crystallization, collecting and washing the crystals, and drying the crystals. In this technique crystals are dissolved in methanol as the solvent, which is then filtered and cooled until the crystals re-solidify. The crystals were purified with a percent recovery. The percentage yield was 0.88 g.

Objective:

- To use the technique of recrystallization, to recrystallize the impure sample of Benzil using methanol as the solvent.

Introduction:

Recrystallization is the most important method for the purification of solid organic compounds. A crystalline organic substance is made up of a three-dimensional array of molecules held together primarily by van der Waals forces. The products of chemical reactions can be impure. Purification of your products must be performed to remove by-products and impurities. Liquids are customarily purified by distillation, while solids are purified by recrystallization (sometimes called simply "crystallization"). Recrystallization is a method of purifying a solid. There are two types of impurities: those more soluble in a given solvent than the main component and those less soluble. The technique used to purify non-volatile solids. It depends on the solubility of a compound in a solvent where it is dissolved and the pure compound is regenerated in crystal form. Solubility is crucial. There are three stages of solubility: 1) collision between solvent molecules and solute molecules 2) dissociation, where the solute molecules leave the bulk crystal lattice, and 3) solvation, where the solute is surrounded by the solvent molecules. Most purifications in the laboratory involve dissolving the

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SJ Ball



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Experimental Organic Chemistry Daniel R. Palleros, 2000-02-04 This cutting edge lab manual takes a multiscale approach presenting both micro semi micro and macroscale techniques The manual is easy to navigate with all relevant techniques found as they are needed Cutting edge subjects such as HPLC bioorganic chemistry multistep synthesis and more are presented in a clear and engaging fashion

Laboratory Manual of Pharmaceutical Organic Chemistry I Mr. Sushant Sudhir Pande, Dr. Prashant D. Aragade, Dr. Saurabh C. Khadse, Dr. Niranjana S. Mahajan, 2024-02-16 We are pleased to put forth the Laboratory Manual of Pharmaceutical Organic Chemistry I This manual prepared according to the PCI B Pharm course regulations 2014 is divided into three sections systematic qualitative analysis preparation of suitable solid derivatives and construction of molecular models The methods of all the experiments are drawn from the latest editions of official books of pharmaceutical organic chemistry and research papers ensuring the inclusion of the latest advancements in methodologies or apparatus This manual is designed for outcome based education Each experiment follows a uniform format with sections for practical significance practical outcomes ProOs mapping with course outcomes theory resources used procedure precautions observations results conclusion references and synopsis questions Each experiment offers an opportunity for students to perform practical work developing proficiency in effectively managing equipment handling glassware chemicals reagents and writing analytical reports In addition the questions at the end of the experiments help to enhance students knowledge benefiting them as they pursue higher studies During the laboratory period you will have to complete multiple tasks while performing the experiment It is essential to document your actions and observations thoroughly as you proceed Always plan your work ahead considering what you are doing why you are doing it what is happening and what conclusions you can draw from your experiment We acknowledge the help and cooperation of various individuals in bringing out this manual We are highly indebted to the authors of the books and articles mentioned in the references which were a major source of information for this manual We also thank the publishers designers and printers who worked hard to publish this manual in a timely manner We hope that this manual will be helpful to students in understanding concepts principles and performing procedures We wish you all the best

Laboratory Experiments to Accompany General, Organic and Biological Chemistry Charles Anderson, David B. Macaulay, Molly M. Bloomfield, Joseph M. Bauer, 2013-02-04 This General Organic and Biochemistry text has been written for students preparing for careers in health related fields such as nursing dental hygiene nutrition medical technology and occupational therapy It is also suited for students majoring in other fields where it is important to have an understanding of the basics of chemistry An integrated approach is employed in which related general chemistry organic chemistry and biochemistry topics are presented in adjacent chapters This approach helps students see the strong connections that exist between these three branches of chemistry and allows instructors to discuss these interrelationships while the material is still fresh in students minds

How Aspirin Entered Our Medicine Cabinet Steven

M. Rooney, J.N. Campbell, 2017-02-17 This brief traces the story of one of our most common medicines aspirin On a journey involving science diverse characters shady business deals innovative advertising and good old fashioned luck Rooney and Campbell describe how aspirin was developed and marketed on a global scale Starting at the beginning of the twentieth century the authors explain the use of aspirin during the First World War the development of competition drugs such as ibuprofen during the interwar years and the application of aspirin to heart disease in the 1950s and 1960s On a broader level Rooney and Campbell show that the development of America's modern pharmaceuticals was a complex weaving of chemistry and mass culture They argue that aspirin's story provides a way to understand the application of complex chemical formulas in medical results This brief is of interest to historians of chemistry and medicine as well as the general educated reader

Analytical and Inorganic Chemistry Laboratory Manual Mr. Rohit Manglik, 2024-03-24 Provides practical experiments and procedures in analytical and inorganic chemistry to reinforce theoretical concepts **Techniques and Experiments For Organic Chemistry** Addison Ault, 1998-08-12 Embraced by the inside covers periodic table of elements and table of solutions of acids the new edition of this introductory text continues to describe laboratory operations in its first part and experiments in the second Revisions by Ault Cornell U include detailed instructions for the disposal of waste and experiments with more interesting compounds e g seven reactions of vanillin and isolating ibuprofen from ibuprofen tablets Conscious of costs microscale experiments are included but not to the point where minuscule amounts of material will preclude the aesthetic pleasure of watching crystals form or distillates collect Annotation copyrighted by Book News Inc Portland OR **Experimental Organic Chemistry** Clark F. Most, 1988-02-09 Acquaints students with all basic laboratory procedures coordinating enough theory and technique to enable readers to fully comprehend the reactions being studied and the procedures involved Material is organized in four sections techniques experiments organic qualitative analysis and appendixes The first section introduces students to all common organic techniques and provides an illustrative experiment with each A unique format helps train the research oriented student to look for relationships that are not immediately apparent The experiments section moves on to more complex experiments involving synthetic procedures followed by work up and analysis requiring more than one technique Instructions are complete and easy to follow and a set of pre laboratory experiments encourages students to determine goals before beginning lab work The appendixes cover less referred to techniques sublimation density determination and molecular weight determinations and contain a pronunciation guide and a compilation of chemical hazards Multiscale Operational Organic Chemistry John W. Lehman, 2009 This comprehensive laboratory text provides a thorough introduction to all of the significant operations used in the organic lab and includes a large selection of traditional scale and microscale experiments and minilabs Its unique problem solving approach encourages students to think in the laboratory by solving a scientific problem in the process of carrying out each experiment The Second Edition contains a new introductory section Chemistry and the Environment which includes a discussion of the principles of

green chemistry Several green experiments have been added and some experiments from the previous editions have been revised to make them greener Operational Organic Chemistry John W. Lehman, 2009 This comprehensive lab companion provides enough theory to help students understand how and why an operation works but emphasizes the practical aspects of an operation to help them perform the operation successfully in the lab The new 4th edition contains a new introductory section Chemistry and the Environment which includes a discussion of the principles of green chemistry Several green experiments have been added and some experiments from the previous editions have been revised to make them greener

Report of the National Chemical Laboratory National Chemical Laboratory (Great Britain), 1948 Includes Report of the Steering Committee 1958 Statement on National Chemical Laboratory Steering Committee and Report of the director of the National Chemical Laboratory Innovative Education Technologies for 21st Century Teaching and Learning Muhammad Mujtaba Asad, Fahad Sherwani, Razali Bin Hassan, Prathamesh Churi, 2021-11-05 This book highlights all aspects of innovative 21st century education technologies and skills which can enhance the teaching and learning process on a broader spectrum based on best practices around the globe It offers case studies on real problems involving higher education it includes policies that need to be adaptable to the new environments such as the role of accreditation online learning MOOCs and mobile based learning The book covers all aspects of the digital competencies of teachers to fulfill the required needs of 21st century classrooms and uses a new pedagogical approach suitable for educational policies Innovative Education Technologies for 21st Teaching and Learning is the first book that addresses the teaching and learning challenges and how those challenges can be mitigated by technology which educational institutions are facing due to the COVID 19 pandemic This book is suitable for teachers students instructional and course designers policymakers and anyone interested in 21st century education *Microscale and Miniscale Organic Chemistry Laboratory Experiments* Allen M. Schoffstall, Barbara A. Gaddis, Melvin L. Druehl, 2000 This work offers a comprehensive introductory treatment of the organic laboratory techniques for handling glassware and equipment safety in the laboratory micro and mini scale experimental procedures theory of reactions and techniques applications and spectroscopy **Health & Drugs** Nicolae Sfetcu, 2014-05-02 Information about drugs side effects and abuse Drug prescription medication and therapy online stores to buy drugs Testing interaction administration and treatments for the health care Medicine is the branch of health science and the sector of public life concerned with maintaining or restoring human health through the study diagnosis treatment and possible prevention of disease and injury It is both an area of knowledge a science of body systems their diseases and treatment and the applied practice of that knowledge A drug is any biological substance synthetic or non synthetic that is taken for non dietary needs It is usually synthesized outside of an organism but introduced into an organism to produce its action That is when taken into the organisms body it will produce some effects or alter some bodily functions such as relieving symptoms curing diseases or used as preventive medicine or any other purposes *Chemistry* Karen

Timberlake,1999 Suitable for one or two term lab courses covering general organic and biological chemistry this new edition written by Karen Timberlake features many improvements to the insightful experiments that have made it the leading lab manual Each experiment encourages critical thinking with laboratory goals discussion of related concepts clear instructions new pre lab questions and comprehensive report pages Forty one experiments illustrate the basic principles of chemistry

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Organic Chemistry Penny Chaloner,2014-12-15 Offering a different more engaging approach to teaching and learning Organic Chemistry A Mechanistic Approach classifies organic chemistry according to mechanism rather than by functional group The book elicits an understanding of the material by means of problem solving instead of purely requiring memorization The text enables a deep understanding of underlying principles that can be applied to a wide range of problems and systems It also teaches a

way of thinking and analysis that will serve students well across many academic disciplines Covering all the key aspects of organic chemistry this text emphasizes the development of skills through a student centered approach In order to provide a contemporary feel to the subject the author has included some of the more modern synthetic approaches In addition later chapters address the biological environmental industrial and forensic aspects of organic chemistry Pedagogical Features Extensive review problems which are the central means of integrating the material Focus boxes that highlight key points in the chapters An instructors website with full lecture notes in animated PowerPoint a solutions manual in both Word and PowerPoint format and additional problems for use in tests A student website with solutions to review problems and additional challenging problems and solutions for the ambitious in animated PowerPoint and text versions **Advanced Organic Chemistry** Francis A. Carey, Richard J. Sundberg, 2007-06-13 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 *Laboratory Experiments for General Chemistry* Harold R. Hunt, Toby F. Block, 1994 *The Student's Lab Companion* John W. Lehman, 2008 This comprehensive lab companion provides enough theory to help students understand how and why an operation works but emphasizes the practical aspects of an operation to help them perform the operation successfully in the lab For undergraduate or graduate students taking organic chemistry lab This comprehensive lab companion provides enough theory to help students understand how and why an operation works but emphasizes the practical aspects of an operation to help them perform the operation successfully in the lab The Second Edition makes substantive revisions of many operations to clarify existing material and add new information More environmentally friendly i e green lab experiments are encouraged Ideal for professors who write their own lab experiments or would like custom labs but need a source for lab operations and safety information

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