

Lab 1 – Melting Point

Part I – Purpose and Procedure

The purpose of the lab is determine the melting point of samples of pure urea, pure cinnamic acid, and varying mixtures of the two.

Procedure

Melting Points of Pure Urea and Cinnamic Acid

1. Crush a sample of both pure urea and cinnamic acid into powder using a metal spatula
2. Push the open end of a capillary into the powder in order to force the powder into the capillary, then lightly tap the capillary on a hard surface until the sample is tightly packed at the bottom
3. Heat the melting point system to approximately fifteen degrees below the known melting point – should be the same for both the urea and the cinnamic acid
4. Heat samples at the rate of one degree per minute
5. Note the temperature at which the first drops of liquid appear
6. Note the temperature at which any trace of solid has disappeared

Melting Points of Urea-Cinnamic Acid Mixtures

1. Make mixtures of urea and cinnamic acid in the approximate proportions 1:4, 1:1, and 4:1
2. Grind mixtures to ensure thoroughly mixed
3. Refer to the steps of the previous procedure for the remainder

Materials

- Weigh boats
- Optimeit© Automated Melting System
- Capillaries
- Metal spatula

Substances

Substance:	Amount	Melting Point
Urea	<1 g	132.5 ° C – 133 ° C
Cinnamic Acid	<1 g	132.5 ° C – 133 ° C

Part I – Data

Organic Chemistry Lab Manual Melting Point Answers

Harry Linn Fisher



Organic Chemistry Lab Manual Melting Point Answers:

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 PrOs 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 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

A Laboratory Manual of Organic Chemistry Roger John Williams, Ray Quincy Brewster, 1928 Laboratory Manual of Organic Chemistry Harry Linn Fisher, 1920 Experiments in Organic Chemistry Forris Jewett Moore, Henry Weeden Underwood, 1927 **A Laboratory Manual of Organic Chemistry for Students of the Medical Sciences** Hugh Cornelius Muldoon, 1927 **A Laboratory Manual of Organic Chemistry for Medical Students** Matthew Steel, 1916

Laboratory Manual of Pharmaceutical Chemistry Dr. Remeth J. Dias, Dr. Prashant D. Aragade, Mr. Sushant Sudhir Pande, 2023-09-28 We are very pleased to put forth the revised edition of Laboratory Manual of Pharmaceutical chemistry We have incorporated all the suggestions modified it to make it easier student friendly and relevant in terms of achieving curriculum outcome We are very much thankful to all the learned teachers who have given their feedback whole heartedly We have even incorporated the changes in this manual based on the feedback given by the teachers from all the institutes Now we believe that the manual has been fulfilling the aspirations of Pharmacotherapeutics teachers and students too This manual is prepared as per PCI Education Regulations 2020 for Diploma Course in Pharmacy The methods of all the

experiments are reviewed and added from the recent research papers so that the advancement in the methods or apparatus can be addressed This manual is designed for outcome based education and each experiment is arranged in a uniform way such as practical significance practical outcomes PrOs and its mapping with course outcomes minimum theoretical background resources used procedure precautions observations result conclusion references and related questions Moreover assessment scheme is also given to help the student and teacher to know what to be assessed Each experiment offers an opportunity to perform practical work allowing students to gain proficiency in effectively managing equipment handling glassware chemicals and reagents and writing analytical reports In addition questions are provided at the end of the experiments to enhance students knowledge which will be beneficial for them as they pursue higher studies We hope that this manual will assist students in understanding concepts principles and performing procedures We wish you all the best

Practical Lab Manual of Pharmaceutical Organic Chemistry - I Dr. Priyanka Gupta Manglik, 2024-08-15 Includes a collection of foundational organic chemistry experiments for pharmaceutical studies with step by step procedures observations and safety guidelines **Solutions, Phase equilibrium, Conductance, Electrochemistry and Functional Group Organic Chemistry II - Laboratory** Mr. Rohit Manglik, 2024-03-04 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **Laboratory Manual of Pharmaceutical Organic Chemistry II** Mr. Sushant Sudhir Pande, Dr. Prashant D. Aragade, Dr. Niranjana S. Mahajan, Dr. Rahul P. Umbarkar, 2024-02-16 We are very pleased to put forth the Laboratory Manual of Pharmaceutical Organic Chemistry II This manual is prepared as per PCI B Pharm course regulations 2014 and is divided into three sections for laboratory techniques determination of oil values and preparations of organic compounds The methods of all the experiments are added from the recent research papers so that the advancement in the methods or apparatus can be addressed **Laboratory Manual of Organic Chemistry** Harry Linn Fisher, 1934 Chemistry Lab Manual Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual *The Chemical News and Journal of Industrial Science*, 1913 *The Chemical News*, 1923 *Chemical News and Journal of Industrial Science*, 1907 **The Chemical News : and Journal of Physical Science**, 1907 Holy Cross Catalog College of the Holy Cross (Worcester, Mass.), 1912 **The Chemical News and Journal of Industrial Science** William Crookes, James H. Gardiner, Gerald Druce, H. W. Blood-Ryan, 1775 *Laboratory Manual of Elementary Organic Chemistry* George Holmes Richter, 1951 *Laboratory Manual of Physical Chemistry* Albert Watson Davison, Henry Sjoerd van Klooster, 1922

Organic Chemistry Lab Manual Melting Point Answers Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Organic Chemistry Lab Manual Melting Point Answers**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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