

# 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
- OptiMelt® 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

**Denise Guinn, Rebecca Brewer**



## Organic Chemistry Lab Manual Melting Point Answers:

**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 **Chemistry Lab Manual** Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual **Lab Manual for General, Organic, and Biochemistry** Denise Guinn, Rebecca Brewer, 2009-08-21 Teaching all of the necessary concepts within the constraints of a one term chemistry course can be challenging Authors Denise Guinn and Rebecca Brewer have drawn on their 14 years of experience with the one term course to write a textbook that incorporates biochemistry and organic chemistry throughout each chapter emphasizes cases related to allied health and provides students with the practical quantitative skills they will need in their professional lives Essentials of General Organic and Biochemistry captures student interest from day one with a focus on attention getting applications relevant to health care professionals and as much pertinent chemistry as is reasonably possible in a one term course Students value their experience with chemistry getting a true sense of just how relevant it is to their chosen profession To browse a sample chapter view sample ChemCasts and more visit [www.whfreeman.com/gob](http://www.whfreeman.com/gob) **Techniques in Organic Chemistry** Jerry R. Mohrig, Christina Noring Hammond, Paul F. Schatz, 2010-01-06 Compatible with standard taper miniscale 14 10 standard taper microscale Williamson microscale Supports guided inquiry Cover **Chemistry Lab Manual Class XI | follows the latest CBSE syllabus and other State Board following the CBSE Curriculum.** Mr. Rohit Manglik, Mr. Kaushalesh Dwivedi, 2022-08-04 With the NEP and expansion of research and knowledge has changed the face of education to a great extent In the Modern times education is not just constricted to the lecture method but also includes a practical knowledge of certain subjects This way of education helps a student to grasp the basic concepts and principles Thus trying to break the stereotype that subjects like Physics Chemistry and Biology means studying lengthy formulas complex structures and handling complicated instruments we are trying to make education easy fun and enjoyable Hard Bound Lab Manual Chemistry Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manuals *EduGorilla's CBSE Class 11th Chemistry Lab Manual | 2024 Edition | A Well Illustrated, Complete Lab Activity book with Separate FAQs for Viva Voce Examination* , Need an informative and well illustrated Lab Manual CBSE Class 11th Chemistry Lab Manual is here for you The Lab Manual provides comprehensive steps for guiding students through each experiment Rigorously researched content prepared by a team of educators writers editors and proofreaders CBSE Class XI Chemistry Lab Manual has properly labeled

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