Pre-Lab

I. Title: Identification of an Impure Unknown Using Recrystallization and Mixed Melting Point Experiment

II. Introduction:

The lab consists of using the recrystallization process which purifies organic solid compounds. The goal is to dissolve and subsequently crystallize a pure substance from the solution to identify an unknown. The purpose of the experiment will be to purify an impure sample of an unknown organic compound through recrystallization and identify the unknown by establishing its melting point. Recrystallization will allow for an effective way of obtaining a pure sample. There will be five steps of recrystallization used in the lab:

- 1. Choosing an appropriate solvent for the recrystallization
- 2. Dissolving the impure mixture in the hot solvent
- 3. Removing the insoluble impurities from the hot solvent via filtration
- 4. Cooling to crystallize the pure compound from the solution
- 5. Isolating the pure compound via suction filtration

The melting point of a chemical substance is the temperature at which its solid and liquid phases are in equilibrium. The mixed melting point experiment will determine the melting point of the unknown solid to verify the identity of the unknown compound.

III. Table of Regents:

Compound Name	Structure	MW (g/mol)	MP (°C)
Acetanilide		135.16	114.5
Benzamide		121.14	127-130

Recrystallization Lab Discussion

Jicheng Xie

Recrystallization Lab Discussion:

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 Scientific and Technical Aerospace Reports, 1988 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, 1977 **Energy Research Abstracts** ERDA Energy Research Abstracts United States. Energy Research and Development Administration. Technical Nuclear Science Abstracts ,1965 Mathematical and Physical Simulation of the Information Center, 1977 **Properties of Hot Rolled Products** Maciej Pietrzyk, L. Cser, J.G. Lenard, 1999-07-05 The objective of this publication is to comprehensively discuss the possibilities of producing steels with pre determined attributes demanded by the customer to fit exacting specifications. The information presented in the book has been designed to indicate the reasons for the expenses and to aid in the process of overcoming the difficulties and reducing the costs In nine detailed chapters the authors cover topics including steel as a major contributor to the economic wealth of a country in terms of its capabilities and production current concerns of major steel producers phenomena contributing to the quality of the product information concerning the boundary conditions of the rolling process and initial conditions put to use by mathematical models the solid state incremental approach and flow formulation parameters and variables most of which make use of the exponential nature of phenomena that are activated by thermal energy the application of three dimensional analysis to shape rolling the evaluation of parameters by a form of inverse analysis to the flat rolling process knowledge based modeling using artificial intelligence expert systems and neural networks They conclude that when either mathematical or physical modeling of the rolling process is considered and the aim is to satisfy the demands for customers it is possible to produce what the customer wants exactly

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Justice, and State, the Judiciary, and related agencies appropriations for 2004 United States. Congress. House. Committee on Appropriations. Subcommittee on the Departments of Commerce, Justice, and State, the Judiciary, and Related Clinical laboratory methods Roger Sylvester Morris, 1913 **Grading for Growth** David Clark, Robert Talbert, 2023-07-03 Are you satisfied with your current and traditional grading system. Does it accurately reflect your students learning and progress Can it be gamed Does it lead to grade grubbing and friction with your students The authors of this book two professors of mathematics with input from colleagues across disciplines and institutions offer readers a fundamentally more effective and authentic approach to grading that they have implemented for over a decade Recognizing that traditional grading penalizes students in the learning process by depriving them of the formative feedback that is fundamental to improvement the authors offer alternative strategies that encourage revision and growth Alternative grading is concerned with students eventual level of understanding This leads to big changes Students take time to review past failures and learn from them Conversations shift from why did I lose a point for this to productive discussions of content and process Alternative grading can be used successfully at any level in any situation and any discipline in classes that range from seminars to large multi section lectures This book offers a comprehensive introduction to alternative grading beginning with a framework and rationale for implementation and evidence of its effectiveness The heart of the book includes detailed examples including variations on Standards Based Grading Specifications Grading and ungrading of how alternative grading practices are used in all kinds of classroom environments disciplines and institutions with a focus on first hand accounts by faculty who share their practices and experience The book includes a workbook chapter that takes readers through a step by step process for building a prototype of their own alternatively graded class and ends with concrete practical time tested advice for new practitioners. The underlying principles of alternative grading involve Evaluating student work using clearly defined and context appropriate content standards Giving students helpful actionable feedback Summarizing the feedback with marks that indicate progress rather than arbitrary numbers Allowing students to revise without penalty using the feedback they receive until the standards are met or exceeded This book is intended for faculty interested in exploring alternative forms of learning assessment as well as those currently using alternative grading systems who are looking for ideas and options to refine practice

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