

Pre-Lab

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

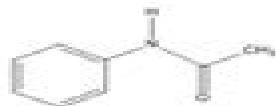
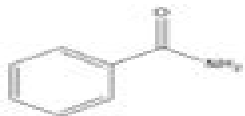
II. Introduction:

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)
Acetamide		135.16	114.3
Benzamide		121.14	127-130

Recrystallization Lab Discussion

Terry C. Jones



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 ,1986 ERDA Energy Research Abstracts United States. Energy Research and Development Administration. Technical Information Center, 1977 **Nuclear Science Abstracts** ,1965 **Mathematical and Physical Simulation of the**

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

Transactions of the American Institute of Mining, Metallurgical and Petroleum Engineers American Institute of Mining, Metallurgical, and Petroleum Engineers, 1921 Some vols 1920 1949 contain collections of papers according to subject The Effects of Alloying Elements in Titanium D. J. Maykuth, F. C. Holden, D. N. Williams, Robert Isaac Jaffee, 1961

Nuclear Science Abstracts ,1963-03 The Nickel Bulletin ,1959 Includes sections Abstracts and references and Patents Transactions of the American Institute of Mining and Metallurgical Engineers ,1921 *108-1 Hearings: Departments of Commerce, Justice, and State, The Judiciary, and Related Agencies Appropriations For 2004, Part 5, March 6, 2003, ** ,2004

U.S. Government Research Reports ,1964 **Papers and Discussions Presented Before the [Coal] Division** American Institute of Mining, Metallurgical, and Petroleum Engineers, 1921 Energy Research Abstracts ,1988

Transactions American Institute of Mining, Metallurgical, and Petroleum Engineers, American Institute of Mining Engineers, 1921 Some vols 1920 1949 contain collections of papers according to subject **Departments of Commerce,**

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 Agencies, 2004 *Clinical laboratory methods* Roger Sylvester Morris, 1913 **Grading for Growth** David Clark, Robert Talbert, 2023-07-03

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