

## Recrystallization Lab

### Discussion and Conclusions

Recrystallization is a technique used for the purification of solid compounds. It is important to take into consideration that crystallization is not the same as precipitation. Precipitation is the fast formation of solid material, which may contain impurities trapped in the rapidly formed crystal lattice. On the other hand, crystallization is the slow formation of crystalline solid. Formation of crystals is a highly selective process that usually excludes foreign molecules and only crystals of the desired compound forms. Recrystallization relies on the different solubilities of solutes in a solvent. The ideal recrystallization solvent a-) should not react with the compound that is going to be purified, b-) should dissolve a moderate quantity of the substance being purified at elevated temperature, but only a small quantity at low temperature, c-) should dissolve impurities readily at low temperature or not dissolve them at all, d-) should have a boiling point below the substance's melting point, otherwise, the substance is going to melt before the solvent is removed, and e-) should be nontoxic, nonflammable and inexpensive.

In this experiment, water and 95% ethanol were tested to determine which one was the ideal solvent for unknown #15, a white solid that was selected for purification. To carry out the selection for the best solvent, 0.121 g of unknown #15 and 3 mL of water were placed in test tube #1, while 0.110 g and 3 mL of 95% ethanol were placed in test tube #2. The solubility behavior of the solute in the solvent was analyzed at room temperature, cold temperature and hot temperature. At room temperature, more than a half of the solid dissolved in 95% ethanol while only a small amount dissolved in water. Then, the test tubes were placed in an ice bath and it was observed that unknown #15 was almost insoluble in water and more than a half soluble in 95%

# Recrystallization Lab Discussion

**LP Steffe**



## 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 **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 **Energy Research Abstracts** ,1986 **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 **Clinical laboratory methods**

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