

Recrystallization Pre-Lab

Introduction:

The purpose of this experiment is to recrystallize phenanthrene and benzoic acid to purify the compounds. A compound is dissolved in hot solvent in recrystallization which in this experiment, phenanthrene is dissolved in a solvent pair of water and ethanol, and benzoic acid is dissolved in hexane. The solution will be cooled once completely mixed with these solvents. By doing this, the solute's solubility will decrease and will lead to the formation of benzoic acid and phenanthrene crystal.

Physical Data:

Name	MW (g/mol)	MP (°C)	BP (°C)	Density(g/ml)	Solubility	Hazards
Benzoic acid	122.12	122	250	1.2659	Soluble in hexane, acetone; less soluble in water	Cause skin irritation harmful if consumed
Phenanthrene	178.23	101	332	1.18	Insoluble in water, soluble in benzene, chloroform, acetic acid	Moderate health problems harmful if consumed
Ethanol	46.07	-114.1	79	0.8	Soluble in water and benzene	Highly flammable and toxic
Hexane	86.18	-95	69	0.7	Insoluble in water by soluble in ethanol	Highly flammable

Recrystallization Lab Report Organic Chemistry

Harold Hart, Ernest Edwin Campaigne



Recrystallization Lab Report Organic Chemistry:

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 *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 *U.S. Government Research Reports*, 1959 *Nuclear Science Abstracts*, 1974 **Techniques and Experiments for Organic Chemistry** Addison Ault, 1976 Elements of Experimental Organic Chemistry Michael McCormick, 2002 **Energy Research Abstracts**, 1987 **Green Chemistry** Mark Anthony Benvenuto, Steven Kosmas, 2022-08-22 This volume includes several perspectives on how to connect the United Nations Sustainable Development Goals with the 12 principles of green chemistry and green chemistry education *The Student's Lab Companion* John W. Lehman, 2008 This comprehensive lab companion provides enough theory to help students understand how and why an operation works but emphasizes the practical aspects of an operation to help them perform the operation successfully in the lab For undergraduate or graduate students taking organic chemistry lab This comprehensive lab companion provides enough theory to help students understand how and why an operation works but emphasizes the practical aspects of an operation to help them perform the operation successfully in the lab The Second Edition makes substantive revisions of many operations to clarify existing material and add new information More environmentally friendly i e green lab experiments are encouraged Ideal for professors who write their own lab experiments or would like custom labs but need a source for lab operations and safety information *Scientific and Technical Aerospace Reports*, 1990 **Accessions of Unlimited Distribution Reports**, 1974-11-22 Microscale Organic Laboratory Dana W. Mayo, Ronald M. Pike, David C. Forbes, 2010-01-12 This is a laboratory text for the mainstream organic chemistry course taught at both two and four year schools featuring both microscale experiments and options for scaling up appropriate experiments for use in the macroscale lab It provides complete coverage of organic laboratory experiments and techniques with a strong emphasis on modern laboratory instrumentation a sharp focus on safety in the lab excellent pre and post lab exercises and multi step experiments Notable enhancements to this new edition include inquiry driven experimentation validation of the purification process and the implementation of greener processes including microwave use to perform traditional experimentation **ERDA Energy Research Abstracts**, 1983 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, 1976 **Energy Research Abstracts**, 1987 Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information *The Education Index*, 1974 **Multiscale Operational Organic Chemistry** John W. Lehman, 2009 This comprehensive laboratory text provides a

thorough introduction to all of the significant operations used in the organic lab and includes a large selection of traditional scale and microscale experiments and minilabs Its unique problem solving approach encourages students to think in the laboratory by solving a scientific problem in the process of carrying out each experiment The Second Edition contains a new introductory section Chemistry and the Environment which includes a discussion of the principles of green chemistry Several green experiments have been added and some experiments from the previous editions have been revised to make them greener

Operational Organic Chemistry John W. Lehman, 2009 This comprehensive lab companion provides enough theory to help students understand how and why an operation works but emphasizes the practical aspects of an operation to help them perform the operation successfully in the lab The new 4th edition contains a new introductory section Chemistry and the Environment which includes a discussion of the principles of green chemistry Several green experiments have been added and some experiments from the previous editions have been revised to make them greener

Cooperative Chemistry Lab Manual Cooper, 2005-02 The laboratory course described in the lab manual emphasizes experimental design data analysis and problem solving Inherent in the design is the emphasis on communication skills both written and oral Students work in groups on open ended projects in which they are given an initial scenario and then asked to investigate a problem There are no formalized instructions and students must plan and carry out their own investigations

Laboratory Manual of Elementary Organic Chemistry Harold Hart, Ernest Edwin Campaigne, 1950

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