

Report FOR EXPERIMENT # 1: DETERMINATION OF MELTING POINTS

Your name

TA's name

Your Partner's name

Lab Section

RESULTS:

Melting point of urea: 134-154 °C

Melting point of trans-cinnamic acid: 133-134 °C

Melting range of a mixture of urea and trans-cinnamic acid: 110-125 °C

Melting point of unknown: 133-133.5 °C

Melting point of unknown mixed with urea: 112-123 °C

Melting point of unknown mixed with Melting point of unknown: 133-133.5 °C

Identity of unknown: Melting point of unknown: 133-133.5 °C

CONCLUSION:

In this lab we used melting points to determine the purity of organic compounds. Pure compounds were seen to have a narrow melting range, while impurities were seen to cause the melting range to become lower and broader. From the mixture melting points we were definitively able to identify our unknown as trans-cinnamic acid.

QUESTIONS: DETERMINATION OF MELTING POINTS

1. What is a safety hazard associated with this lab session?

One will be using instruments that will be heated to high temperatures. So, one should take precautions when handling these instruments.

Lab Report On Melting Points

SJ Ball



Lab Report On Melting Points:

Report Kansas State Board of Health,1912 **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 The Organic Chem Lab Survival Manual James W. Zubrick,2020-02-05 Teaches students the basic techniques and equipment of the organic chemistry lab the updated new edition of the popular hands on guide The Organic Chem Lab Survival Manual helps students understand the basic techniques essential safety protocols and the standard instrumentation necessary for success in the laboratory Author James W Zubrick has been assisting students navigate organic chemistry labs for more than three decades explaining how to set up the laboratory make accurate measurements and perform safe and meaningful experiments This practical guide covers every essential area of lab knowledge from keeping detailed notes and interpreting handbooks to using equipment for chromatography and infrared spectroscopy Now in its eleventh edition this guide has been thoroughly updated to cover current laboratory practices instruments and techniques Focusing primarily on macroscale equipment and experiments chapters cover microscale jointware drying agents recrystallization distillation nuclear magnetic resonance and much more This popular textbook Familiarizes students with common lab instruments Provides guidance on basic lab skills and procedures Includes easy to follow diagrams and illustrations of lab experiments Features practical exercises and activities at the end of each chapter Provides real world examples of lab notes and instrument manuals The Organic Chem Lab Survival Manual A Student s Guide to Techniques 11th Edition is an essential resource for students new to the laboratory environment as well as those more experienced seeking to refresh their knowledge Biennial Report Kansas State Board of Health,1912 The Impact of the Laboratory and Technology on Learning and Teaching Science K-16 Dennis W. Sunal,Emmett L. Wright,Cheryl Sundberg,2008-02-01 The Impact of the Laboratory and Technology on K 12 Science Learning and Teaching examines the development use and influence of active laboratory experiences and the integration of technology in science teaching This examination involves the viewpoints of policymakers researchers and teachers that are expressed through research involving original documents interviews analysis and synthesis of the literature case studies narrative studies observations of teachers and students and assessment of student learning outcomes Volume 3 of the series Research in Science Education addresses the needs of various constituencies including teachers administrators higher education science and science education faculty policymakers governmental and professional agencies and the business community The guiding theme of this volume is the role of practical laboratory work and the use of technology in

science learning and teaching K 16 The volume investigates issues and concerns related to this theme through various perspectives addressing design research professional practice and evaluation Beginning with definitions the historical evolution and policy guiding these learning experiences are explored from several viewpoints Effective design and implementation of laboratory work and technology experiences is examined for elementary and high school classrooms as well as for undergraduate science laboratories informal settings and science education courses and programs In general recent research provides evidence that students do benefit from inquirybased laboratory and technology experiences that are integrated with classroom science curricula The impact and status of laboratory and technology experiences is addressed by exploring specific strategies in a variety of scientific fields and courses The chapters outline and describe in detail researchbased best practices for a variety of settings

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operations and safety information **Handbook of Formative Assessment** Heidi Andrade, Gregory J. Cizek, 2010-04-02

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