

## **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

**Clarence Austin Morrow**



## 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      **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      Hygienic Laboratory bulletin. no. 84, 1912 ,1912      *Biennial Report* Kansas State Board of Health,1912      *Papers from the Geophysical Laboratory, Carnegie Institution of Washington* ,1910      **Annual Report** North Dakota Agricultural Experiment Station (Fargo),1906      Annual Report of the Agricultural Experiment Station of the Alabama Polytechnic Institute Alabama Polytechnic Institute. Agricultural Experiment Station,1902      Annual Report of the Agricultural Experiment Station of the Alabama Polytechnic Institute Alabama Agricultural Experiment Station,1896      Hygienic Laboratory bulletin. no. 87, 1913 ,1913      **Inquiry-based Experiments in Chemistry** Valerie Ludwig Lechtanski,2000 Inquiry Based Experiments in Chemistry is an alternative to those cookbook style lab manuals providing a more accurate and realistic experience of scientific investigation and thought for the high school chemistry or physical science student

Laboratory Manual of Elementary Organic Chemistry Harold Hart, Ernest Edwin Campaigne, 1950      *Annual Report - Agricultural Experiment Station* Auburn University. Agricultural Experiment Station, 1902      *Annual Report* Indiana State Board of Health, 1909 Contains also Proceedings of conferences of health officers and lists of physicians      Hygienic Laboratory bulletin. no. 115-120, 1918-20, 1919      *Transactions and Journal of the British Ceramic Society* British Ceramic Society, 1923 Vols for 1971 74 include a separate section with title British ceramic abstracts prepared by the British Ceramic Research Association also issued separately      **Biochemical Laboratory Methods for Students of the Biological Sciences** Clarence Austin Morrow, 1927      American Journal of Public Health, 1925 Includes section Books and reports  
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