

CHM 2210 Lab: Melting Point

Introduction

The melting point of a solid is the temperature at which the solid melts (changes to a liquid) at 1 atm of pressure. Melting point is determined by slow heating of a small solid sample placed in a capillary tube. The melting point should be reported as a melting point range: from the temperature at which the first droplet of liquid is observed to the temperature at which the sample becomes a clear liquid, for example: 96.7 – 98.9°C.

A pure solid (pure enough for most purposes) usually has a sharp melting point which means that it melts within a range of 2°C or less.

An impure solid melts at a broader range (3°C or more) and at depressed temperature.

Using melting point to find the identity of a solid is not sufficient because there are too many substances with the same melting points.

However, you can use a mixed melting point as a tool for identification of a solid.

If you mix two different solids with the same melting point, the melting point of the mixture will be broad and depressed. The melting point of a solid and a mixture of this solid with the authentic solid should be the same.

Example:

Measured/Observed melting point of an unknown solid X: 128.0 – 129.5°C

Melting point of known solid A: 130°C

Melting point of known solid B: 158°C

Measured melting point of mixture X + A: 127.5 – 129.0°C

Measured melting point of mixture X + B: 133.5 – 142.0°C

Identity of unknown X: solid A

In the future you will measure melting points of solids mostly to determine their purity.

- **Preparation of Sample**

A solid sample should be dried and crushed with a metal spatula or bottom of a test tube.

If a solid is used for mixed melting point, the 1:1 mixture should be crushed together into a homogeneous mixture.

The pulverized solid should be mounded up and a small (1 – 2 mm) plug of sample should be pushed into the open end of the capillary tube. The sample should be knocked down to the sealed end of the capillary tube by tapping its sealed end on the surface or dropping it into a long glass tubing.

The sample should be 1-2 mm long and packed firmly.

If the sample is too large, the measured melting point may be too high.

If the sample is loosely packed, it may be difficult to determine the melting point range because of the air present.

Melting Point Lab For High School

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Gourmet Lab Sarah Reeves Young, 2011 Hands on inquiry based and relevant to every student OCOs life Gourmet Lab serves up a full menu of activities for science teachers of grades 6 OCO 12 This collection of 15 hands on experiments OCO each of which includes a full set of both student and teacher pages OCO challenges students to take on the role of scientist and chef as they boil bake and toast their way to better understanding of science concepts from chemistry biology and physics By cooking edible items such as pancakes and butterscotch students have the opportunity to learn about physical changes in states of matter acids and bases biochemistry and molecular structure The Teacher pages include Standards addressed in each lab a vocabulary list safety protocols materials required procedures data analysis student questions answer key and conclusions and connections to spur wrap up class discussions Cross curricular notes are also included to highlight the lesson OCOs connection to subjects such as math and literacy Finally optional extensions for both middle school and high school levels detail how to explore each concept further What better topic than food to engage students to explore science in the natural world

Fostering Sustained Learning Among Undergraduate Students: Emerging Research and Opportunities Chemosit, Caroline, Rugutt, John, Rugutt, Joseph K., 2017-03-03 Keeping students engaged and receptive to learning can at times be a challenge However by the implementation of new methods and pedagogies instructors can strengthen the drive to learn among their students Fostering Sustained Learning Among Undergraduate Students Emerging Research and Opportunities is an essential publication for the latest scholarly information on methods to inculcate student learning with a focus on implications to institutional policy and practices Featuring coverage on topics such as financial aid student motivation and mentorship this book is ideally designed for academicians practitioners and researchers seeking novel perspectives on the learning process and instruction methods

New Coordinated Science: Chemistry Students' Book RoseMarie Gallagher, R. Gallagher, Paul Ingram, 2001-07-19 Provides information in manageable chunks which is reinforced by questions and activities that encourage students to consider the practical application of science to everyday life This work is useful for Higher Tier GCSE students

Catalogue of the Ann Arbor High School for the Academic Year Ann Arbor High School (Mich.), 1903

Chemistry Dorin, Prentice Hall Dictionary Editors, 1992

Michigan School Moderator, 1908

The Internet of Things for Education Linda Daniela, 2021-12-02 This book is about the Internet of Things in the field of education Specifically it focuses on two major topics IoT Internet of Things solutions to support distance education and new pedagogical approaches to support development of computational thinking with educational devices possessing the characteristics of IoT As the educational landscape has dramatically changed in times of global pandemic online resources and media such as IoT have become increasingly important This situation compels all educational scholars researchers and practitioners to search for new solutions new educational pathways and new agents for knowledge development to support learning This book presents the possibilities of IoT as both a catalyst and performance tool for education The convergence of

multiple technologies real time analytics machine learning commodity sensors and embedded systems can serve as tools for learning support and this book details exactly how these powerful tools can be utilized to best effect

Conquering the Electron Derek Cheung, Eric Brach, 2020-02-24 Conquering the Electron offers readers a true and engaging history of the world of electronics beginning with the discoveries of static electricity and magnetism and ending with the creation of the smartphone and the iPad This book shows the interconnection of each advance to the next on the long journey to our modern day technologies Exploring the combination of genius infighting and luck that powered the creation of today s electronic age Conquering the Electron debunks the hero worship so often plaguing the stories of great advances Want to know how AT T s Bell Labs developed semiconductor technology and how its leading scientists almost came to blows in the process Want to understand how radio and television work and why RCA drove their inventors to financial ruin and early graves Conquering the Electron offers these stories and more presenting each revolutionary technological advance right alongside blow by blow personal battles that all too often took place

Teaching Science Online Dietmar Kennepohl, 2023-07-03 With the increasing focus on science education growing attention is being paid to how science is taught Educators in science and science related disciplines are recognizing that distance delivery opens up new opportunities for delivering information providing interactivity collaborative opportunities and feedback as well as for increasing access for students This book presents the guidance of expert science educators from the US and from around the globe They describe key concepts delivery modes and emerging technologies and offer models of practice The book places particular emphasis on experimentation lab and field work as they are fundamentally part of the education in most scientific disciplines Chapters include Discipline methodology and teaching strategies in the specific areas of physics biology chemistry and earth sciences An overview of the important and appropriate learning technologies ICTs for each major science Best practices for establishing and maintaining a successful course online Insights and tips for handling practical components like laboratories and field work Coverage of breaking topics including MOOCs learning analytics open educational resources and m learning Strategies for engaging your students online

Nuclear Science Abstracts ,1972 **Catalogue** Ann Arbor High School (Mich.),1903 **The United States Catalog** ,1909 **AFOSR**. United States. Air Force. Office of Scientific Research,1968 **Q.M.C. Historical Studies ...** ,1944 **The Development of Meat, Dairy, Poultry, and Fish Products for the Army** Elliott Cassidy,1944 **The NIH Record** ,1990 **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

Managing Technological Innovation Frederick Betz,2003-07-03 Technology management as a field came together during the 1980s in response to the question of how society could deliberately create new technology

and exploit it in economic development This updated edition introduces technology management covers the importance of managing information technologies and compares them to existing physical technologies

Handbook of Formative Assessment Heidi Andrade, Gregory J. Cizek, 2010-04-02 Formative assessment has recently become a focus of renewed research as state and federal policy makers realize that summative assessments have reached a point of diminishing returns as a tool for increasing student achievement Consequently supporters of large scale testing programs are now beginning to consider the potential of formative assessments to improve student achievement The mission of this handbook is to comprehensively profile this burgeoning field of study Written by leading international scholars and practitioners each chapter includes a discussion of key issues that dominate formative assessment policy and practice today as well as those that are likely to affect research and practice in the coming years Key features include Comprehensive nineteen chapters cover all aspects of formative assessment including classroom assessment large scale applications technological applications applications for special needs students K 12 and post secondary applications psychometric considerations case studies and discussion of alternative assessment formats such as portfolios and performance assessments Integrative thoughtful attention is given to the integration of large scale and classroom assessments Practical provides practical guidance on how to conduct formative assessments that generate credible information to guide instruction Global provides perspectives from leading international scholars and practitioners whose expertise spans diverse settings student populations and educational systems Accessible Style although grounded in the latest research the book s style and tone has been carefully crafted to make it accessible to both the textbook and professional markets It will also be a critical reference book for researchers in teacher preparation educational administration and educational policy studies

Mosaic ,1987

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