

CHM130LL
Lab 13 – Calorimetry

Name: _____ MEID: _____

Complete the following items by typing into the text box provided. The boxes will increase in size if additional space is necessary. Please be sure to save all your work as an MS Word document to submit properly.

Part 1: Determining the Specific Heat Capacity of Aluminum

A. Data Table 1

Complete the Data Table. (7 pts)

ALUMINUM METAL (Trial 1)	
Tre-weighed aluminum metal mass (g)	20.01 g
Initial temperature of cool water in the calorimeter (oC)	20.0oC
Initial temperature of aluminum metal (same as the boiling water in the p-10) (oC)	100.0oC
Final temperature of water/aluminum metal in calorimeter (oC)	24.0oC
ALUMINUM METAL (Trial 2)	
Tre-weighed aluminum metal mass (g) [Copy this from above table you are using the same metal sample for both trials.]	20.03 g
Initial temperature of cool water in the calorimeter (oC)	18.0oC
Initial temperature of aluminum metal (same as the boiling water in the p-10) (oC)	100.0oC
Final temperature of water/aluminum metal in calorimeter (oC)	21.8oC

B. Insert the following photo with your name and MEID showing in the photo.

Photo A: Insert a photo of your calorimeter showing your aluminum metal submerged in the water. The photo should be taken from above. (6 pts)

C. Calculations (Show all calculations with units on each number and the final answer rounded to the correct significant figures for full credit.)

- Calculate the mass of the water by using the water's density (assume it is 1.00 g/mL) and the volume of the water. Remember, density = mass/volume. (4 pts)

$$D = \frac{M}{V} \rightarrow M = D \times V \rightarrow M = \left[1.00 \frac{\text{g}}{\text{mL}} \right] (75 \text{ mL}) = 75 \text{ g water (Trial 1)}$$

$$D = \frac{M}{V} \rightarrow M = D \times V \rightarrow M = \left[1.00 \frac{\text{g}}{\text{mL}} \right] (75 \text{ mL}) = 75 \text{ g water (Trial 2)}$$

Gcc Chm130ll Nuclear Chemistry

AN Whitehead



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Radiochemistry and Nuclear Chemistry Gregory Choppin, Jan Rydberg, Jan-Olov Liljenzin, 2001-12-03 Radiochemistry or Nuclear Chemistry is the study of radiation from an atomic or molecular perspective including elemental transformation and reaction effects as well as physical health and medical properties This revised edition of one of the earliest and best known books on the subject has been updated to bring into teaching the latest developments in research and the current hot topics in the field In order to further enhance the functionality of this text the authors have added numerous teaching aids that include an interactive website that features testing examples in MathCAD with variable quantities and options hotlinks to relevant text sections from the book and online self grading texts As in the previous edition readers can closely follow the structure of the chapters from the broad introduction through the more in depth descriptions of radiochemistry then nuclear radiation chemistry and finally the guide to nuclear energy including energy production fuel cycle and waste management New edition of a well known respected text in the specialized field of nuclear radiochemistry Includes an interactive website with testing and evaluation modules based on exercises in the book Suitable for both radiochemistry and nuclear chemistry courses

Radiochemistry and Nuclear Chemistry Gregory Choppin, Jan-Olov Liljenzin, Jan Rydberg, Christian Ekberg, 2013-09-05 Radiochemistry or nuclear chemistry is the study of radiation from an atomic and molecular perspective including elemental transformation and reaction effects as well as physical health and medical properties This revised edition of one of the earliest and best known books on the subject has been updated to bring into teaching the latest developments in research and the current hot topics in the field To further enhance the functionality of this text the authors have added numerous teaching aids examples in MathCAD with variable quantities and options hotlinks to relevant text sections from the book and online self grading tests New edition of a well known respected text in the specialized field of nuclear radiochemistry Includes an interactive website with testing and evaluation modules based on exercises in the book Suitable for both radiochemistry and nuclear chemistry courses

An Introduction To Nuclear Chemistry M. Satake, 2010
Contents The Development of Nuclear Chemistry Fundamental Particles and Nuclear Structure Radioactivity and Nuclear Reactions Properties of Nuclear Radiations The Detection and Measurement of Nuclear Radiation Nuclear Instrumentation Radiation Chemistry Isotope Measurement and Separation Methods Charged Particle Accelerators Neutron Sources Production and the Actinides Uses of Isotopes Experimental Nuclear Chemistry

Nuclear Chemistry, 1968 **Modern Nuclear Chemistry** Walter D. Loveland, David J. Morrissey, Glenn T. Seaborg, 2005-11-08 Modern Nuclear Chemistry provides up to date coverage of the latest research as well as examinations of the theoretical and practical aspects of nuclear and radiochemistry Includes worked examples and solved problems Provides comprehensive information as a practical reference Presents fundamental physical principles in brief of nuclear and radiochemistry **Nuclear Chemistry** Maheshwar Sharon, Madhuri Sharon, 2021-02-01 This book is designed to serve as a textbook for core courses offered to postgraduate

students enrolled in chemistry This book can also be used as a core or supplementary text for nuclear chemistry courses offered to students of chemical engineering The book covers various topics of nuclear chemistry like Shell model fission fusion reaction natural radioactive equilibrium series nuclear reactions carried by various types of accelerators In addition it describes the law of decay of radioactivity type of decay and interaction of radiation with matter It explains the difference between ionization counter scintillation counter and solid state detector This book also consists of end of book problems to help readers aid self learning The detailed coverage and pedagogical tools make this an ideal textbook for postgraduate students and researchers enrolled in various chemistry and engineering courses This book will also be beneficial for industry professionals in the allied fields

Principles Of Nuclear Chemistry Peter A C Mcpherson, 2016-12-21 Principles of Nuclear Chemistry is an introductory text in nuclear chemistry and radiochemistry aimed at undergraduates with little or no knowledge of physics It covers the key aspects of modern nuclear chemistry and includes worked solutions to end of chapter questions The text begins with basic theories in contemporary physics and uses these to introduce some fundamental mathematical techniques It relates nuclear phenomena to key divisions of chemistry such as atomic structure spectroscopy equilibria and kinetics It also gives an introduction to f block chemistry and the nuclear power industry This book is essential reading for those taking a first course in nuclear chemistry and is a useful companion to other volumes in physical and analytical chemistry It will also be of use to those new to working in nuclear chemistry or radiochemistry

Handbook of Nuclear Chemistry Attila Vértés, Sándor Nagy, Zoltan Klencsár, Rezső G. Lovas, 2003 *Handbook of Nuclear Chemistry* Attila Vértés, Sándor Nagy, Zoltán Klencsár, Rezso György Lovas, Frank Röscher, 2010-12-10 This revised and extended 6 volume handbook set is the most comprehensive and voluminous reference work of its kind in the field of nuclear chemistry The Handbook set covers all of the chemical aspects of nuclear science starting from the physical basics and including such diverse areas as the chemistry of transactinides and exotic atoms as well as radioactive waste management and radiopharmaceutical chemistry relevant to nuclear medicine The nuclear methods of the investigation of chemical structure also receive ample space and attention The international team of authors consists of scores of world renowned experts nuclear chemists radiopharmaceutical chemists and physicists from Europe USA and Asia The Handbook set is an invaluable reference for nuclear scientists biologists chemists physicists physicians practicing nuclear medicine graduate students and teachers virtually all who are involved in the chemical and radiopharmaceutical aspects of nuclear science The Handbook set also provides further reading via the rich selection of references

Experimental nuclear chemistry Gregory R. Choppin, 1963

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few years. This will lead to the car dropping down overnight. The ASM ... Why Your Jaguar XJ8 Suspension is Failing, and ... Oct 21, 2018 — Another major problem is that air suspensions are made of moving, rather than static parts. Moving parts are guaranteed to wear down over time ... Action Has No Season: Strategies... by Roberts, J.D. ... This is a must read for leaders and entrepreneurs; an amazing book of proverbs for decision-making. Taking "action" is the central theme, but the book ... Action Has No Season 2.0: How the Actionaire Develops ... Dr. Roberts reveals how the Actionaire lays the foundation of their future vision by setting goals, having the courage to take risks, and by showing others ... Action Has No Season by Michael V. Roberts J. D., ... This is a must read for leaders and entrepreneurs; an amazing book of proverbs for decision-making. Taking 'action' is the central theme, but the book. Action Has No Season 2.0 Oct 6, 2019 — Widely acclaimed as one of America's leading and most influential businessmen, Dr. Michael V. Roberts, Sr. returns with his innovative ... Action Has No Season - J. D. Michael V. Roberts This is a must read for leaders and entrepreneurs; an amazing book of proverbs for decision-making. Taking "action" is the central theme, ... Action Has No Season book by Michael V. Roberts Buy a cheap copy of Action Has No Season book by Michael V. Roberts. This is a must read for leaders and entrepreneurs; an amazing book of proverbs for ... Action Has No Season: Strategies and Secrets to Gaining ... This is a must read for leaders and entrepreneurs; an amazing book of proverbs for decision-making. Taking 'action' is the central theme, but the book. Action Has No Season 2.0: How the Actionaire Develops ... Oct 7, 2019 — With Action Has No Season 2.0, Dr. Roberts explains how to develop the infinite possibilities that define your personal life and business and ... Excerpt from "Action has no season" by Michael V. Roberts ... On the surface of the corporate world, everyone must peacefully, coexist with each other; therefore, everything must appear conventional, politically correct, ... Delores Talley Roberts - Action Has No Season Action Has No Season. 506 likes. Widely acclaimed as one of America's leading and most influential businessmen, Dr. Michael V. Robe.