

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)	
Pre-weighed aluminum metal mass (g)	20.01 g
Initial temperature of cool water in the calorimeter (°C)	20.0°C
Initial temperature of aluminum metal (same as the boiling water in the pot) (°C)	100.0°C
Final temperature of water/aluminum metal in calorimeter (°C)	24.0°C
ALUMINUM METAL (Trial 2)	
Pre-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 (°C)	18.0°C
Initial temperature of aluminum metal (same as the boiling water in the pot) (°C)	100.0°C
Final temperature of water/aluminum metal in calorimeter (°C)	21.8°C

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

Ensheng Dong



Gcc Chm130II Nuclear Chemistry:

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
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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 **Nuclear Chemistry** Oldřich Navrátil, 1992 *An Introduction to Nuclear Chemistry* Glenn Theodore Seaborg, 1946 **Nuclear and Radiochemistry** Gerhart Friedlander, Joseph W. Kennedy, Edward S. Macias, Julian M. Miller, 1981-08-10 *Introduction to Radiation Chemistry* Third Edition J W T Spinks and R J Woods The only single source guide to radiation chemistry has now been expanded to include new material on applied radiation chemistry and

experimental methods as well as gaseous and solid systems Other enhancements include broadened coverage of chemical reactions initiated by high energy and their commercial applications as well as new topics related to kinetics and experimental procedures The Third Edition features numerical data in SI units simplifying most radiation chemical calculations an expanded problem section and key references updated to reflect recent research 1990 0 471 61403 3 574 pp

The Elements Beyond Uranium Glenn T Seaborg and Walter D Loveland Written by the team of Nobel Laureate Glenn Seaborg an active participant in the discovery of transuranium elements and leading chemist Walter Loveland here is a unique inside account of the discovery of these elements as well as the first definitive look at their chemical physical and nuclear properties The book contains detailed discussions of nuclear synthesis reactions experimental techniques natural occurrence superheavy elements practical applications and predictions for the future as well as such special features as excerpts from original notebooks pictures of element discovery teams and up to date tables of nuclear properties 1990 0 471 89062 6 359 pp

Nuclear Chemistry Arora, M G,1994 *Nuclear and Radiochemistry* Karl Heinrich Lieser,2008-09-26

This new edition of the best selling handbook gives a complete and concise description of the latest knowledge on nuclear and radiochemistry as well as their applications in the various fields of science It is based on over 40 years experience in teaching courses and research The book is aimed at all researchers seeking sound knowledge about the properties of matter whether chemists physicists medical doctors mineralogists or biologists All of them will find this a valuable source of information Research in radiochemistry includes Study of radioactive matter in nature investigation of radioactive transmutations chemistry of radioelements etc Applications include Radionuclides in geo and cosmochemistry dating by nuclear methods radioanalysis Mossbauer spectroscopy and related methods behavior of natural and man made radionuclides in the environment dosimetry and radiation protection All the subjects are presented clearly and comprehensibly and in a logical sequence avoiding detailed derivations of equations The relevant information is compiled in tables and the recent edition of the multi colored Karlsruhe Chart of the Nuclides has also been included Clearly a standard work by an author with extensive experience in research and teaching

Textbook Of Nuclear Chemistry A. Singh,R. Singh,2006-01-01 **Handbook of Nuclear Chemistry: Chemical applications of nuclear reactions and radiations** Attila Vértés,Sándor Nagy,Zoltan Klencsár,Rezső G. Lovas,2003

Nuclear and Radiochemistry Jens-Volker Kratz,2021-10-05

Nuclear and Radiochemistry The leading resource for anyone looking for an accessible and authoritative introduction to nuclear and radiochemistry In the newly revised Fourth Edition of Nuclear and Radiochemistry Fundamentals and Applications distinguished chemist Jens Volker Kratz delivers a two volume handbook that has become the gold standard in teaching and learning nuclear and radiochemistry The books cover the theory and fundamentals of the subject before moving on the technical side of nuclear chemistry with coverage of nuclear energy nuclear reactors and radionuclides in the life sciences This latest edition discusses the details and impact of the Chernobyl and Fukushima nuclear disasters as well as

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