



Properties of Am, Ra & Fm elements

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Abstract

Radium (Ra), Fermium (Fm), and Americium (Am) are elements belong to the actinide series (Actinides are a group of elements with atomic numbers ranging from 90 to 103, all of which are radioactive and have similar chemical properties) and were discovered or synthesized in the 20th century. They have varying levels of radioactivity and toxicity, and their properties make them useful in different applications.

INTRODUCTION

Radium (Ra), Fermium (Fm), and Americium (Am) are three elements with unique properties and uses. Radium is a highly radioactive metal that was discovered in 1898 by Marie and Pierre

Curie. It is used in some medical treatments, such as radiation therapy for cancer, but is highly toxic and can cause health problems if not handled properly.

Fermium is a synthetic element that was first synthesized in 1952 by a team of scientists led by Glenn T. Seaborg. It is highly radioactive and has no known uses outside of scientific research.

Americium is also a synthetic element that was first produced in 1944 by a team of scientists led by Glenn T.

ANALYSIS

Radium (Ra) is a highly radioactive element that belongs to the alkaline earth metals group. It was discovered by Marie and Pierre Curie in 1898 and named after the Latin word "radius," which means ray, due to its high radioactivity. Radium is silvery-white in color and has a melting point of 700°C. It is a rare element found in uranium ores and other minerals. Radium is known for its high radioactivity and emits alpha, beta, and gamma rays. It has a half-life of 1600 years, which means it takes that amount of time for half of the radium atoms to decay. This property

makes it useful in various applications such as cancer treatment, where it is used to destroy cancer cells. However, radium is also highly reactive and can react with water, oxygen, and other elements to form compounds. This property makes it dangerous to handle, as it can cause burns and other health problems if ingested or inhaled.

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The Future of U.S. Chemistry Research National Research Council, Division on Earth and Life Studies, Board on Chemical Sciences and Technology, Committee on Benchmarking the Research Competitiveness of the United States in Chemistry, 2007-07-08 Chemistry plays a key role in conquering diseases solving energy problems addressing environmental problems providing the discoveries that lead to new industries and developing new materials and technologies for national defense and homeland security However the field is currently facing a crucial time of change and is struggling to position itself to meet the needs of the future as it expands beyond its traditional core toward areas related to biology materials science and nanotechnology At the request of the National Science Foundation and the U S Department of Energy the National Research Council conducted an in depth benchmarking analysis to gauge the current standing of the U S chemistry field in the world The Future of U S Chemistry Research Benchmarks and Challenges highlights the main findings of the benchmarking exercise

Contributions from the National Research Institute of Chemistry National Research Institute of Chemistry. Shanghai, 1936

Reason And Imagination: Reflections On Research In Organic Chemistry-Selected Papers Of Derek H R Barton Derek H R Barton, 1996-03-21 This book is about the recognition of new principles in Organic Chemistry It is also about the discovery and invention of Chemical Reactions In addition it deals with the determination of structure by chemical degradation during the epoch when physical methods were not well developed Also presented are new reagents and new types of functional groups never seen in chemistry before The overall aim of the collected papers is to show how thought can direct original research and to demonstrate how thought about old or new chemical facts can lead to originality This is further illuminated by commentaries which Prof Barton has written to accompany these papers

A Handbook of Physical Chemistry Experiments Dr. Damodar V. Prabhu, Dr. Sakina Zoher Bootwala, Prof. Anand N. Gadgil, Prof. DSc Irena Kostova, Dr. Harichandra A Parbat, Dr. Chetana M Rana, Ms. Amruta Kaskar, 2025-04-29 The importance of experimentation in Science Education cannot be overemphasised Theory can best be understood if based on experimentation Ideas and hypotheses have to be tested in the laboratory for validation and acceptance This book entitled A Handbook of Physical Chemistry Experiments discusses in detail more than 85 experiments which form a major part of the M Sc Chemistry syllabi of Indian universities and will be particularly useful to students pursuing studies in Physical Chemistry as also students pursuing equivalent studies in Chemistry in foreign universities While discussing the experiments a step by step approach has been adopted starting with the aim of the experiment theory requirements detailed procedure calculations and results Also a few experiments have been suggested without giving too many details The book deals with the experiments pertaining to Chemical kinetics Partition ratio Adsorption Electroanalytical techniques Conductometry Potentiometry pHmetry and Polarography Colorimetry and Spectrophotometry Thermochemistry Phase rule Transport numbers Cryoscopy Colloidal state of matter and Physical properties viscosity optical rotation surface

tension and refractive index Appendixes on 1 Safety in the Chemistry laboratory 2 Preparation of solutions and 3 Fundamental Constants have been included A bibliography of useful reference books has been included to motivate the readers to do further reading We hope the book will be useful to students teachers researchers and industry chemists Suggestions for the improvement of the book are welcome Publication of Basic Research Findings in Industry, 1957-59 National Science Foundation (U.S.),1961 **Handbook of Research on Water Sciences and Society** Vaseashta, Ashok,Duca, Gheorghe,Travin, Sergey,2022-03-11 Water supports three basic pillars of our life and survival safety security and sustainability Hence it is extremely important to revisit the fundamental characteristics of water in order to discover additional information and the characteristics water has that will help uncover pathways to support the United Nations Sustainable Development Goals UN SDG to reduce inequality and make cities and human settlements more inclusive safe resilient and sustainable Clean water is a critical component to meet such goals While the fundamental physical and chemical properties of water continue to reveal new aspects it is critical that we review these properties in the context of several recent applications and by case studies The Handbook of Research on Water Sciences and Society provides the basics of water science ways to sense detect and mitigate contaminants several regional case studies and societal aspects of water including the human right to access water The book serves as a comprehensive knowledge base on the latest fundamental and applied research and scientific innovations regarding the relationships between society and water resources safe and sustainable use of water watershed stewardship industrial application and public health awareness Covering a wide range of topics it is an ideal resource for researchers professionals policymakers scientists practitioners instructors and students

Green Chemistry and Water Remediation: Research and Applications Sanjay K. Sharma,2020-10-22 Green Chemistry and Water Remediation Research and Applications explores how integrating the principles of green chemistry into remediation research and practice can have a great impact from multiple directions This volume reviews both common sources of chemical pollution and how using green chemistry as the basis for new or improved remediation techniques can ensure that remediation itself is conducted in a sustainable way By outlining the main types of chemical pollutants in water and sustainable ways to address them the authors hope to help chemists identify key areas and encourage them to integrate green chemistry into the design of new processes and products In addition the books highlights and encourages the use of the growing range of green remediation approaches available to experts helping researchers planners and managers make informed decisions in their selection of remediation techniques Puts the naturally aligned fields of green chemistry and environmental remediation in context providing key background to both Highlights the use of both established and cutting edge techniques for sustainable water remediation including nanotechnology biofiltration and phytoremediation Explores the potential impact sustainability goals in chemical waste production and water remediation **Publication of Basic Research Findings in Industry** National Science Foundation (U.S.),1961 A Guide to the Scientific and Technical

Literature of Eastern Europe Battelle Memorial Institute,1963 **Basic Concepts Of Chemistry** Dr. Ritu,Ms. Sarika Chhabria Talreja,Mr. Y. Rajendra,Dr. V. Nagalakshmi,2022-11-01 Engineers in the field known as chemical employ economics statistics biology microbiology and biochemistry as well as physics and chemistry to find solutions to real world issues Chemical engineers are unique in that they draw on chemistry knowledge in addition to their engineering expertise Since their knowledge of science and technology is so scientific chemical engineers are often referred to as universal engineers Chemical engineers often possess the degree in Chemical Engineering as well as Process Engineering Engineers in the field may be recognised members of professional organisation and in possession of relevant professional credentials Over the years chemical engineering has maintained its position as one of the best paying branches of engineering Chemical engineers are in high demand in a wide variety of industries from the more classic ones like chemicals and plastics to newer ones like electronics and consumer goods to mining and metals extraction and even biomedical implants and power production This book was created with basic introduction in chemical engineering in mind hence it is aimed largely towards iv undergraduate students taking those courses It s designed for college grads entering the workforce and realising they need further training in unit operations and structural design **Science Education Research and Practice in Asia** Mei-Hung Chiu,2016-06-10 This book discusses the scope of science education research and practice in Asia It is divided into five sections the first consists of nine chapters providing overviews of science education in Asia China Lebanon Macau Malaysia Mongolia Oman Singapore Taiwan and Thailand The second section offers chapters on content analysis of research articles while the third includes three chapters on assessment and curriculum The fourth section includes four chapters on innovative technology in science education and the fifth section consists of four chapters on professional development and informal learning Each section also has additional chapters providing specific comments on the content This collection of works provides readers with a starting point to better understand the current state of science education in Asia *Organic Chemistry and Nanoparticles: Bridging the Molecular and Nanoscale Worlds* Dr. Amrita Raj,Dr. Sushil B Kapoor,Anindita Dutta Roy,Prof. Reshal Deshmukh,2024-12-06 The book *Organic Chemistry and Nanoparticles Bridging the Molecular and Nanoscale Worlds* offers a thorough examination of the interactions between two cutting edge scientific disciplines organic chemistry and nanotechnology This book bridges the gap between these disciplines by demonstrating how organic chemistry concepts support the design production and use of nanoparticles in a variety of sectors including medicine environmental science and materials engineering The book starts with the basics introducing essential ideas in organic chemistry such as reaction processes structural representation functional groups and stereochemistry The field of nanotechnology which uses organic molecules to produce nanostructures with special qualities is easily linked to these foundations Self assembly green synthesis techniques and surface functionalization are all comprehensively covered with a focus on sustainable nanoparticle development approaches The book explores real world uses including the use of organic nanoparticles in gene therapy

cancer treatment and targeted medication delivery It also looks at how important they are for improving soil cleaning up pollutants and purifying water In order to provide readers the tools they need to evaluate and optimize nanoparticles for particular applications specialized chapters concentrate on sophisticated characterisation techniques such as spectroscopic approaches UV Vis FTIR NMR and microscopic techniques SEM TEM AFM Sustainability and environmental effect are important issues with a focus on green nanotechnology and resource conservation The book also discusses the difficulties facing nanomedicine and looks forward to this quickly developing discipline This book is intended for professionals researchers and students studying chemistry nanotechnology and related subjects It is a resource for education and a manual for multidisciplinary creativity It offers a strategy for using organic nanoparticles ability to address difficult global issues and advance science by bridging the gap between the molecular and nanoscale realms

Surface Chemistry and Applied Physical Chemistry Research Papers Peter Joseph Scales,1993 **Journal of the Chemical Society** ,1923 Journal of the Chemical Society Chemical Society (Great Britain),1929 **Industrial & Engineering Chemistry** ,1929 Practical Chemistry Dr. Ajay Sharma,Dr. Gaytri Prasad,Dr. Praveen Singh Gehlot,2024-07-12

The university grant commission UGC has proposed a certain defined new syllabus or curriculum for Indian universities according to NEP The changes are made in the syllabus or curriculum from time to time by educationalists or committees to bring uniformity to the education system In this book all the experiments are included with their principles and according to the syllabus of Indian universities The flow and constancy have been kept in this book so that students can learn and understand every corner of practical chemistry especially students in their first year who came from school education The book is written in simple systematic and easy language so students can grasp and learn the practical view of theories and principles Each chapter of this book starts with a brief introduction of theories and principles of experiments and then experimental procedures are explained The pre knowledge of any experiments helps to understand a deep sense of Theories The flow charts are given within the chapter to memorize some analytical procedures Writing the experiments in the record book is suggested at end of the chapter To boost the student s minds logical questions are given in separate chapters so students can prepare themselves for viva voce The method of solution preparation is also described in this book The list of required solutions and reagents of the laboratory are given for information For further knowledge some physical properties and a list of references and books are mentioned at end of the book This book is the result of experience and efforts in collecting compiling and editing content which makes it useful to students In it an effort has been made to select contents to meet the needs of students or demonstrators who cannot command the unlimited time available or who lack the facilities of library books or references which so often are not conveniently located at centers A worthy task had been accomplished by authors to guide and serve the information regarding experiments The students with this book may find systematic analysis practical procedures and a table containing valuable information in a single volume that has been especially computed for this purpose Every effort has been made to

select the most reliable acceptable and feasible practical procedures with accuracy However we have effort to present work without any errors but there are opportunities that there may be some of them are present We expect from students and readers will bring our attention to such an error so that in our subsequent edition this error may solve and will not repeat While the principal aim of the book is for the UG student of chemistry it should also be of value to many people especially professional chemists physicists mineralogists biologists pharmacists engineers patent attorneys geologists agriculture chemists and chemists in the industries are often called upon to solve problems dealing with the properties of chemical products solution preparation analysis of chemicals We hope this book will be useful for the UG students of chemistry and that its resting place will be the desk of every student rather than on the bookshelf of any institute s library Advanced Research Methodology: Methods And Techniques Dr. S. Parvathy, Dr. M. Umayavalli, Dr. P. Ramu, Mrs. V. Manjula, 2023-07-28 The researcher s inner world is formed by his or her choice of research methodology which considers the nature of the study and the researcher s philosophy time frame and other contextual factors Furthermore the research methodology works as the central nervous system since it limits the scope of the investigation and because proper research work necessitates that both the internal and exterior surroundings adhere to the correct research methodology procedure Research methodologies refer to the procedures used to assemble information for studies The data might be used for theoretical or applied studies such as the strategic conceptualization of management research operational planning methodologies and change management Most of your work will be done when you complete the data analysis However before you start you need to consider specific crucial issues in research technique such as the validity of research data ethics and dependability After this comes the research plan which might be either purely experimental or include some elements of experimentation The last two steps are analyzing the data and producing the research report The data is meticulously sorted into graphs tables and only the most relevant information is presented A researcher must develop a research approach appropriate to the study s subject matter It is essential to remember that even if two topics need the same study approach the research technique might differ **A Textbook of Herbal Drug Technology** Prof. (Dr.) Stuti Verma, Prof.(Dr.) Rahul Kumar Sharma, Prof.(Dr.) Anup Kumar Sirbaiya, Mr. Rajeev Kumar, Mrs. Priyanka Yadav, Mr. Gulam Muheyuddeen, 2025-06-12 Herbal Drug Technology presents a comprehensive and scientific approach to the study of herbal medicines aligning traditional healing systems with modern pharmaceutical practices Intended primarily for pharmacy students and aligned with the PCI curriculum the book also serves as a valuable reference for researchers practitioners of Ayurveda and allied systems and professionals in the herbal drug and nutraceutical industries It explores the journey of herbal drugs from plant to product covering topics such as plant taxonomy collection and authentication of raw materials pharmacognostic evaluation phytochemical extraction formulation development and analytical techniques for standardization The book also delves into herbal cosmetics nutraceuticals and the use of advanced techniques like chromatography and spectroscopy for quality assurance It addresses global and Indian

regulatory requirements intellectual property rights and ethical aspects of bioprospecting With case studies current industry practices and comparative insights from traditional and modern medicine this text goes beyond the basics to build a strong conceptual and practical foundation for future professionals in herbal healthcare *Catalogue* Kansas State Agricultural College, Kansas State College of Agriculture and Applied Science, Kansas State University, 1920

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