

# **Nuclear Chemistry** (used in activities)

**Model: Models represent the three isotopes of carbon:**



## **Critical Thinking Questions**

1. How many protons are in carbon-12?  $\frac{6}{12}$  How many neutrons are in carbon-12?  $\frac{6}{12}$
2. How many electrons are in carbon-12?  $\frac{6}{12}$  How many neutrons are in carbon-12?  $\frac{6}{12}$
3. How many protons are in carbon-13?  $\frac{6}{13}$  How many neutrons are in carbon-13?  $\frac{7}{13}$
4. How is carbon-14 different from carbon-12? What is different among isotopes?  
(Note: in previous 3 questions)
5. What does the subscript represent in all three models (carbon-12, carbon-13, carbon-14)?

## **Information: Nuclear reactions and binding/decay:**

1. A nuclear reaction is a change in the composition of the nucleus of an atom. That is, the number of protons is changed in chemical reactions, but that that stayed the same otherwise the atom might be in.
2. There are three types of nuclear reactions: fusion, fission, and radioactive decay. Fusion is the joining of two light nuclei, such as the stars where the sun and fusion. Fission is the splitting of a heavy nucleus, such as the nuclear power plants. Radioactive decay is the process of a nucleus changing into a more stable nucleus.
3. Some isotopes are radioactive, meaning that they emit energy (alpha, beta, gamma) and give off particles, "rays," or heat. There is one thing to keep in mind about isotopes: they are radioactive.

**Table 1: Some types of nuclear reactions producing nuclear reactions**

Type of Reaction	Symbol	Mass Number	Charge	Energy Released	Isotopes Involved	Isotopes Produced
Fusion	$\alpha$ , $\beta$	4	2+	very low	hydrogen	helium, lithium
Fission	$\alpha$ , $\beta$	238	2+	low	uranium, plutonium	uranium, plutonium
Radioactive	$\alpha$ , $\beta$	238	2+	very high	uranium, plutonium	uranium, plutonium
Radioactive	$\alpha$ , $\beta$	238	2+	very high	uranium, plutonium	uranium, plutonium
Radioactive	$\alpha$ , $\beta$	238	2+	low	uranium, plutonium	uranium, plutonium

# Chemactivity 8 Nuclear Chemistry

**Robert C. Smoot, Smoot, Richard G.  
Smith, Jack Price**



## **Chemactivity 8 Nuclear Chemistry:**

*Introductory Chemistry* Michael P. Garoutte, Ashley B. Mahoney, 2015-08-10 The ChemActivities found in Introductory Chemistry A Guided Inquiry use the classroom guided inquiry approach and provide an excellent accompaniment to any one semester Introductory text Designed to support Process Oriented Guided Inquiry Learning POGIL these materials provide a variety of ways to promote a student focused active classroom that range from cooperative learning to active student participation in a more traditional setting General, Organic, and Biological Chemistry Michael P. Garoutte, 2014-02-24

Classroom activities to support a General Organic and Biological Chemistry text Students can follow a guided inquiry approach as they learn chemistry in the classroom General Organic and Biological Chemistry A Guided Inquiry serves as an accompaniment to a GOB Chemistry text It can suit the one or two semester course This supplemental text supports Process Oriented Guided Inquiry Learning POGIL which is a student focused group learning philosophy of instruction The materials offer ways to promote a student centered science classroom with activities The goal is for students to gain a greater understanding of chemistry through exploration **Chemistry** Richard S. Moog, John J. Farrell, 2017-06-26 In the newly updated 7th Edition Chemistry A Guided Inquiry continues to follow the underlying principles developed by years of extensive research on how students learn and draws on testing by those using the POGIL methodology This text follows the principles of inquiry based learning and correspondingly emphasizes underlying chemistry concepts and the reasoning behind them This text provides an approach that follows modern cognitive learning principles by having students learn how to create knowledge based on experimental data and how to test that knowledge

**Process Oriented Guided Inquiry Learning (POGIL)** Richard Samuel Moog, 2008 POGIL is a student centered group learning pedagogy based on current learning theory This volume describes POGIL's theoretical basis its implementations in diverse environments and evaluation of student outcomes *Merrill Chemistry* Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998 Prentice Hall Chemistry, 2000 *British Chemical Abstracts*, 1951 **World Who's who in Science** Marquis Who's Who, Inc, 1968

World Who's who in Science, 1968 **World Who's who in Science** Allen G. Debus, 1968 **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      *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 Changed Particle Accelerators Neutron Sources Production and the Actinides Uses of Isotopes Experimental Nuclear Chemistry      **Nuclear Chemistry** Oldřich Navrátil,1992      *Introduction to Nuclear Physics and Chemistry* Bernard George Harvey,2012-06-01      **Modern Nuclear Chemistry** Walter D. Loveland,David J. Morrissey,Glenn T. Seaborg,2017-03-21 Written by established experts in the field this book features in depth discussions of proven scientific principles current trends and applications of nuclear chemistry to the sciences and engineering Provides up to date coverage of the latest research and examines the theoretical and practical aspects of nuclear and radiochemistry Presents the basic physical principles of nuclear and radiochemistry in a succinct fashion requiring no basic knowledge of quantum mechanics Adds discussion of math tools and simulations to demonstrate various phenomena new chapters on Nuclear Medicine Nuclear Forensics and Particle Physics and updates to all other chapters Includes additional in chapter sample problems with solutions to help students Reviews of 1st edition an authoritative comprehensive but succinct state of the art textbook The Chemical Educator and an excellent resource for libraries and laboratories supporting programs requiring familiarity with nuclear processes CHOICE      **Essentials of Nuclear Chemistry** Hari Jeevan Arnika,1995 The Revised Edition Retains The Essential Theories Of Nuclear Structure And Stability Radioactivity And The Principles Of Fission Fusion And Breeder Reactors Of The Earlier Editions The Preparation Of The More Commonly Used Radioisotopes And Their Uses As Tracers In Research Medicine Agriculture And Industry Are Described The Book Also Covers The Elements Of Radiation And Radiochemistry Illustrated With Additional Examples The Section On Mossbauer Effect Is Retained The Chapter On The Detection And Measurement Of Radioactivity Is Revised To Include Thermo Luminescence And Cerenkov Detectors New Additions In The Present Edition Include A Whole Chapter On The Separation And Uses Of Stable And Radioactive Isotopes Needed In Bulk Amounts In The Atomic Age How An Extension Of Basic Principles Of Nuclear Magnetic Resonance Nmr Has

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**Handbook of Nuclear Chemistry** Attila Vértes,Sándor Nagy,Zoltán Klencsár,Rezso György Lovas, Frank Rösch,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

**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

[Nuclear Chemistry](#) National Research Council (U.S.). Panel on Nuclear Chemistry,1966

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