

Nuclear Chemistry Worksheet

Part A. Identify the following as alpha, beta, gamma, or neutron.

1. 1_0n _____
2. ${}^0_{-1}e$ _____
3. ${}^4_2\text{He}$ _____
4. ${}^0_0\gamma$ _____
5. Nuclear decay with no mass and no charge _____
6. An electron _____
7. Least penetrating nuclear decay _____
8. The most damaging nuclear decay to the human body _____
9. Nuclear decay that can be stopped by skin or paper _____
10. Nuclear decay that can be stopped by aluminum _____

Part B. Complete the following nuclear equations.

11. ${}^{40}_{19}\text{K} \rightarrow {}^0_{-1}e + \underline{\hspace{2cm}}$
12. ${}^{239}_{94}\text{Pu} \rightarrow {}^4_2\text{He} + \underline{\hspace{2cm}}$
13. ${}^{40}_{19}\text{K} \rightarrow {}^0_{-1}e + \underline{\hspace{2cm}}$
14. ${}^{238}_{92}\text{U} \rightarrow \underline{\hspace{2cm}} + {}^{234}_{90}\text{Th}$
15. ${}^6_3\text{Li} \rightarrow {}^4_2\text{He} + \underline{\hspace{2cm}}$
16. $\underline{\hspace{2cm}} \rightarrow {}^{142}_{56}\text{Ba} + {}^{91}_{36}\text{Kr} + 3 {}^1_0n$

Part C. Write the equations for the following processes.

17. The alpha decay of radon – 198
18. The beta decay of uranium – 237
19. Positron emission from silicon – 26
20. Sodium – 22 undergoes electron capture

Nuclear Chemistry Homework Sheet

Morris Hein, Susan Arena



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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 *Monthly Catalog, United States Public Documents* United States. Superintendent of Documents, 1968 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index [Guided Inquiry Design® in Action](#) Leslie K. Maniotes, 2016-12-05 Edited by the cocreator of the Guided Inquiry Design GID framework as well as an educator speaker and international consultant on the topic this book explains the nuances of GID in the high school context It also addresses background research and explains guided inquiry and the information search process Today's students need to be able to think creatively to solve problems They need to be in learning environments that incorporate collaboration discussion and genuine reflection to acquire these kinds of real world skills Guided Inquiry Design in Action High School gives teachers and librarians lesson plans created within the proven GID framework specifically designed for high school students and provides the supporting information and guidance to use these lesson plans successfully You'll find the lesson plans and complete units of Guided Inquiry Design clear and easy to implement and integrate into your existing curriculum in all areas from science to humanities to social studies These teaching materials are accompanied by explanations of critical subjects such as the GID framework using Guided Inquiry as the basis for personalized learning using inquiry tools for assessment of learning in high school and applying teaching strategies that increase student investment and foster critical thinking and deeper learning **Documents Released by the United States Atomic Energy Commission to January 1, 1950** U.S. Atomic Energy Commission, 1950 **United States Government Publications Monthly Catalog**, 1949 **Foundations of College Chemistry, Alternate** Morris Hein, Susan Arena, 2010-01-26 Learning the fundamentals of chemistry can be a difficult task to undertake for health professionals For over 35 years this book has helped them master the chemistry skills they need to succeed It provides them with clear and logical explanations of chemical concepts and problem solving They'll learn how to apply concepts with the help of worked out examples In addition Chemistry in Action features and conceptual questions checks brings together the

understanding of chemistry and relates chemistry to things health professionals experience on a regular basis **Cehmistry**

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