

25

NUCLEAR CHEMISTRY

Practice Problems

In your notebook, solve the following problems.

SECTION 25.1 NUCLEAR RADIATION

- What happens to the mass number and atomic number of an atom that undergoes beta decay?
- A nuclide of an element undergoes alpha particle decay. How do the atomic number and mass number of the particle change?
- Give the composition of the nucleus of the following isotopes.
 - $^{224}_{86}\text{Rn}$
 - $^{232}_{90}\text{Th}$
 - $^{209}_{83}\text{Bi}$
- Complete each of the following equations.
 - $^{238}_{92}\text{U} \rightarrow ^{234}_{90}\text{Th} + ?$
 - $^{226}_{88}\text{Ra} \rightarrow ^{222}_{86}\text{Rn} + ?$
 - $^{234}_{90}\text{Th} \rightarrow ^{234}_{91}\text{Pa} + ?$

SECTION 25.2 NUCLEAR TRANSFORMATIONS

- Write a nuclear equation for the following radioactive processes.
 - alpha decay of francium-223
 - electron capture by beryllium-7
 - beta emission by argon-37
 - positron emission by boron-12
- Complete the equations for these transmutation reactions.
 - $^{24}_{12}\text{Mg} + ^4_2\text{He} \rightarrow ^{28}_{14}\text{Si} + ?$
 - $^{238}_{92}\text{U} + ^4_2\text{He} \rightarrow ? + ^{232}_{90}\text{Th} + ^1_0\text{n}$
 - $^{240}_{94}\text{Pu} + ^1_0\text{n} \rightarrow ? + ^{140}_{54}\text{Xe}$
 - $^{235}_{92}\text{U} \rightarrow ^{141}_{54}\text{Xe} + ? + 3^1_0\text{n}$
 - $^1_0\text{n} + ^{235}_{92}\text{U} \rightarrow ^{141}_{54}\text{Xe} + ^{92}_{38}\text{Sr} + 2^1_0\text{n}$
- Po-214 has a relatively short half-life of 164 s. How many seconds would it take for 8.0 g of this isotope to decay to 0.25 g?
- How many days does it take for 16 g of polonium-210 to decay to 1.0 g? The half-life of polonium-210 is 137 days.
- By approximately what factor would the mass of a sample of copper-66 decrease in 50 minutes? The half-life of copper-66 is 5.48 min.
- In 5.48 minutes, 1.00 g of argon-39 decays to leave only 0.12 g. What is the half-life of argon-39?

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Table of Contents 25 Nuclear Chemistry Answer Key

1. Understanding the eBook 25 Nuclear Chemistry Answer Key
 - The Rise of Digital Reading 25 Nuclear Chemistry Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying 25 Nuclear Chemistry Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an eBook 25 Nuclear Chemistry Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from 25 Nuclear Chemistry Answer Key
 - Personalized Recommendations
 - 25 Nuclear Chemistry Answer Key User Reviews and Ratings
 - 25 Nuclear Chemistry Answer Key and Bestseller Lists

5. Accessing 25 Nuclear Chemistry Answer Key Free and Paid eBooks
 - 25 Nuclear Chemistry Answer Key Public Domain eBooks
 - 25 Nuclear Chemistry Answer Key eBook Subscription Services
 - 25 Nuclear Chemistry Answer Key Budget-Friendly Options
6. Navigating 25 Nuclear Chemistry Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - 25 Nuclear Chemistry Answer Key Compatibility with Devices
 - 25 Nuclear Chemistry Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 25 Nuclear Chemistry Answer Key
 - Highlighting and Note-Taking 25 Nuclear Chemistry Answer Key
 - Interactive Elements 25 Nuclear Chemistry Answer Key
8. Staying Engaged with 25 Nuclear Chemistry Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 25 Nuclear Chemistry Answer Key
9. Balancing eBooks and Physical Books 25 Nuclear Chemistry Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 25 Nuclear Chemistry Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 25 Nuclear Chemistry Answer Key
 - Setting Reading Goals 25 Nuclear Chemistry Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 25 Nuclear Chemistry Answer Key
 - Fact-Checking eBook Content of 25 Nuclear Chemistry Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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web it is right to give god thanks and praise blessed are you creator of the universe from old you have led your people by night and day may the light of your christ make our darkness bright for your word and your presence are the light of our pathways and you are the light and life of all creation

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