

ENGAGE

Why does the atomic number but not the mass number change in positron emission?

SAMPLE PROBLEM 5.4 Writing a Nuclear Equation for Positron Emission**TRY IT FIRST**

Write the balanced nuclear equation for manganese-49, which decays by emitting a positron.

SOLUTION GUIDE

	Given	Need	Connect
ANALYZE THE PROBLEM	Mn-49, positron emission	balanced nuclear equation	mass number, atomic number of new nucleus

STEP 1 Write the incomplete nuclear equation.



STEP 2 Determine the missing mass number. In the equation, the mass number, 49, is equal to the sum of the mass numbers of the new nucleus and the positron.

$$49 = ? + 0$$

$$49 - 0 = ?$$

$$49 - 0 = 49 \text{ (mass number of new nucleus)}$$

STEP 3 Determine the missing atomic number. The atomic number, 25, must equal the sum of the atomic numbers of the new nucleus and the positron.

$$25 = ? + 1$$

$$25 - 1 = ?$$

$$25 - 1 = 24 \text{ (atomic number of new nucleus)}$$

STEP 4 Determine the symbol of the new nucleus. On the periodic table, the element that has atomic number 24 is chromium, Cr. The atomic symbol for this isotope of Cr is written ${}^{49}_{24}\text{Cr}$.

STEP 5 Complete the nuclear equation.

**STUDY CHECK 5.4**

Write the balanced nuclear equation for xenon-118, which undergoes positron emission.

ANSWER**TEST**

Try Practice Problems 5.15 to 5.18

Mastering Chemistry Answer

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Table of Contents Mastering Chemistry Answer

1. Understanding the eBook Mastering Chemistry Answer
 - The Rise of Digital Reading Mastering Chemistry Answer
 - Advantages of eBooks Over Traditional Books
2. Identifying Mastering Chemistry Answer
 - 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 Mastering Chemistry Answer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mastering Chemistry Answer
 - Personalized Recommendations
 - Mastering Chemistry Answer User Reviews and Ratings
 - Mastering Chemistry Answer and Bestseller Lists

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