

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 Answers

JR Anderson



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EBOOK: GENERAL CHEMISTRY, THE ESSENTIAL CONCEPTS

CHANG, 2013-01-07 EBOOK GENERAL CHEMISTRY THE ESSENTIAL CONCEPTS *Organic Chemistry* Allan D.

Headley, 2020-01-02 Provides an in depth study of organic compounds that bridges the gap between general and organic chemistry Organic Chemistry Concepts and Applications presents a comprehensive review of organic compounds that is appropriate for a two semester sophomore organic chemistry course The text covers the fundamental concepts needed to

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Kenya National Bibliography Kenya National Library Service. National Reference & Bibliographic Department, 2012

General Chemistry Study Guide Sixth Edition Darrell D. Ebbing, 1999

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The Success Manual for General Chemistry Elizabeth Kean, Catherine Middlecamp, 1986

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Courtney Ngai is the Associate Director of the Office of Undergraduate Research and Artistry at Colorado State University
Gabriela Szteinberg serves as Assistant Dean and Academic Coordinator for the College of Arts and Sciences at Washington
University in St Louis Community and Junior College Journal ,1974

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