

সুতরাং, বিশেষ MY_2 অম্লজিহ্ন হবে।



↑↑↑↑ ivlv fv+jv:

কিছু ভাষ্যমাত্রায় কোনো প্রকণে একটি লবণ প্রস্তুত থাকবে যদি অম্লজিহ্ন হবে তা নির্ভর করে লবণটির প্রাকৃতিক তপনতের উপর। যদি প্রকণে কোনো লবণের উপস্থিতি অম্লজিহ্নের আয়নিক তপনতের মান লবণটির প্রাকৃতিক তপনতের মানকে অতিক্রম করতে না পারে তবে লবণটি প্রকণে প্রস্তুত অসম্ভব থাকে। আর যদি লবণের আয়নিক তপনতের মান (K_{sp}) লবণটির প্রাকৃতিক তপনতের মান (K_{sp}) কে অতিক্রম করে তবে লবণটি প্রকণ থেকে অম্লজিহ্ন হয়।

অর্থাৎ,

$K_{sp} < K_{sp}$: প্রকণটি অসম্পূর্ণ প্রকণ

$K_{sp} = K_{sp}$: প্রকণটি সম্পূর্ণ প্রকণ

$K_{sp} > K_{sp}$: প্রকণ থেকে প্রব অম্লজিহ্ন হয়

III A পাঠের PN প্রকণ তৈরি করলে তা নিম্নলিখিত অম্লজিহ্ন হয়,



সুতরাং, PN প্রকণের ঘনমাত্রা, $0.1M$ হবে—

P^+ আয়নের ঘনমাত্রা, $[P^+] = 0.1 M$

N^- আয়নের ঘনমাত্রা, $[N^-]_1 = 0.1 M$

এখানে, PN প্রকণে N^- আয়ন উপস্থিত। অন্যান্যিক A পাঠের MIN_3 লবণের একটি অম্লজিহ্ন N^- উপস্থিত থাকলে A পাঠের PN প্রকণ তৈরি করলে সম্ভাব্যতঃ প্রতিক্রিয়া করলে MIN_3 এর প্রাকৃতিক প্রকণ হবে।

যদি, MIN_3 এর লবণ প্রাকৃতিক, S

প্রকণে MIN_3 নিম্নলিখিত অম্লজিহ্ন হয়,



সুতরাং, M^{3+} আয়নের ঘনমাত্রা, $[M^{3+}] = S$

N^- আয়নের ঘনমাত্রা, $[N^-]_2 = 3S$

সেহেতু, N^- আয়ন PN ও MIN_3 উভয় ক্ষেত্রে উপস্থিত, সেহেতু

N^- আয়নের মোট ঘনমাত্রা হবে, $[N^-] = (3S + 0.1)M$

এখন MIN_3 এর আয়নিক তপনত,

$$K_{sp} = [M^{3+}] \times [N^-]^3$$

$$\begin{aligned} \text{কি, } 2.7 \times 10^{-11} &= S \times (3S + 0.1)^3 \quad [\because \text{কি, } K_{sp} = 2.7 \times 10^{-11}] \\ &= S \times [(3S)^3 + 3 \times (3S)^2 \times 0.1 + 3 \times 3S \times (0.1)^2 + (0.1)^3] \\ &= S \times [27S^3 + 2.7S^2 + 0.09S + 0.001] \\ &= 27S^4 + 2.7S^3 + 0.09S^2 + 0.001S \end{aligned}$$

$$\text{কি, } 2.7 \times 10^{-11} = 0.001S \quad [\because S^4, S^3, S^2 \text{ এর মান খুবই নগণ্য}]$$

$$\begin{aligned} \therefore S &= \frac{2.7 \times 10^{-11}}{0.001} \\ &= 2.7 \times 10^{-8} \text{ mol L}^{-1} \end{aligned}$$

অর্থাৎ, MIN_3 ক্ষেত্রে লবণ প্রাকৃতিক, $2.7 \times 10^{-8} \text{ mol L}^{-1}$

অতএব, A পাঠের PN প্রকণ তৈরি করলে MIN_3 এর প্রাকৃতিক $10^{-8} \text{ mol L}^{-1}$ থেকে-এম পাঠের $2.7 \times 10^{-8} \text{ mol L}^{-1}$ হবে।

Hsc Chemistry Note Bd

Lei Shi

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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Table of Contents Hsc Chemistry Note Bd

1. Understanding the eBook Hsc Chemistry Note Bd
 - The Rise of Digital Reading Hsc Chemistry Note Bd
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Chemistry Note Bd
 - 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 Hsc Chemistry Note Bd
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Chemistry Note Bd
 - Personalized Recommendations
 - Hsc Chemistry Note Bd User Reviews and Ratings
 - Hsc Chemistry Note Bd and Bestseller Lists
5. Accessing Hsc Chemistry Note Bd Free and Paid eBooks
 - Hsc Chemistry Note Bd Public Domain eBooks
 - Hsc Chemistry Note Bd eBook Subscription Services
 - Hsc Chemistry Note Bd Budget-Friendly Options
6. Navigating Hsc Chemistry Note Bd eBook Formats

- ePub, PDF, MOBI, and More
- Hsc Chemistry Note Bd Compatibility with Devices
- Hsc Chemistry Note Bd Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc Chemistry Note Bd
 - Highlighting and Note-Taking Hsc Chemistry Note Bd
 - Interactive Elements Hsc Chemistry Note Bd
- 8. Staying Engaged with Hsc Chemistry Note Bd
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc Chemistry Note Bd
- 9. Balancing eBooks and Physical Books Hsc Chemistry Note Bd
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc Chemistry Note Bd
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hsc Chemistry Note Bd
 - Setting Reading Goals Hsc Chemistry Note Bd
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsc Chemistry Note Bd
 - Fact-Checking eBook Content of Hsc Chemistry Note Bd
 - 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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5, 2017 — Nuclear Chemistry Targets: 1.I CAN Utilize appropriate scientific vocabulary to explain scientific concepts. 2.I CAN Distinguish between fission ... Matter and Change • Chapter 25 When a radioactive nucleus gives off a gamma ray, its atomic number increases by. 12. The three types of radiation were first identified by Ernest Rutherford. Nuclear Chemistry - Lake Central High School Jul 12, 2015 — What is the change in atomic number after the alpha decay?It decreases by 2.b. ... answer the following questions.Nuclear ... 25.2 Nuclear Transformations | Lecture notes Chemistry These nuclei decay by turning a neutron into a pro- ton to emit a beta particle (an electron) from the nucleus. This process is known as beta emission. It ... 60 s - 1 min SECTION 25.2 NUCLEAR TRANSFORMATIONS. 1. Write a nuclear equation for the following radioactive processes. a. alpha decay of francium-208 $^{208}\text{Fr} \rightarrow$ b ...