

ঘের ও কীটপতঙ্গের অস্বাস্থ্যের নির্বাহী পদ্ধতির প্রয়োজন

চলকের ঘনমাত্রা,

$$S = \frac{W}{V} = \frac{20}{16.5} = 1.21$$

$$M = 0.5479 \text{ M}$$

অতএব, HCl চলকের ঘনমাত্রা

$$= 0.5479 \text{ M}$$

এখানে,

$$\text{মলের ভর, } m = 20 \text{ g}$$

$$\text{HCl এর আপেক্ষিক ভর,}$$

$$M = 36.5 \text{ g/mol}$$

$$\text{চলকের আয়তন, } V = 1 \text{ L}$$

$$\text{চলকের ঘনমাত্রা } S = ?$$

উদাহরণে উল্লিখিত X-পদ্ধতিতে 10 mg এর মধ্যে কয় পরিমাণ ঘনমাত্রা Y-পদ্ধতিতে 0.5 g 2% (W/V) HCl দ্রবণ নিয়ে কাজ করা হয়েছে।

যদিও X-পদ্ধতিটি হলো সেমি-মাইক্রো আনালিটিক্যাল পদ্ধতি ও Y-পদ্ধতিটি হলো মাইক্রো আনালিটিক্যাল পদ্ধতি। উভয় পদ্ধতির মধ্যে সেমি-মাইক্রো পদ্ধতি পরিবেশ বান্দব। নিম্নে তা বিশ্লেষণ করা হলো-

সেমি-মাইক্রো পদ্ধতি রাসায়নিক গুণগত বিশ্লেষণের একটি পদ্ধতি। এটি বিশ্লেষণের সময় প্রায় 100 মিলিগ্রাম রাসায়নিক উপাদান সন্নিবেশিত ও বিশ্লেষণের বিশ্লেষণে ব্যবহৃত হয়। এ পদ্ধতিতে খুব কম পরিমাণ (0.05 থেকে 0.2g কঠিন বা 2-4ml তরল দ্রব্য) রাসায়নিক পদার্থ নিয়ে পরীক্ষা করা হয়। ফলে পরিবেশে মুদ্রণ উল্লেখযোগ্যভাবে কমে আসে।

এছাড়া সেমি-মাইক্রো পদ্ধতিতে H₂S এর পরিবর্তে ক্লোরোফর্মিক অ্যাসিড ব্যবহার করা হয় ফলে পরিবেশে মুদ্রণ ঘটে না।

$\text{CH}_3\text{COOH} + \text{H}_2\text{O} \rightarrow \text{CH}_3\text{COOH}_2 + \text{H}_2\text{O}$

অতএব, কোনো কোনো ক্ষেত্রে কম কষ্টের রাসায়নিক দ্রব্য ব্যবহৃত হয়। ফলে পরিবেশে মুদ্রণের সম্ভাবনা কমে আসে। তাই সেমি-মাইক্রো পদ্ধতি পরিবেশ বান্দব।

উদাহরণ



পাত্র-ক



পাত্র-খ



পাত্র-গ



H₂SO₄ 10M

১. টাইটার ফ্লাস্ক কী?
২. সেমি-মাইক্রো পদ্ধতি পরিবেশ বান্দব কেন?
৩. চলকের জন্য প্রয়োজ্য হ্যাঞ্জার প্রকৃতিটি অঙ্কন করো এবং ব্যাখ্যা করো।
৪. উদাহরণের আলোকে চলক থেকে উপযুক্ত কাচ পাত্র ব্যবহার করে 1M ঘনমাত্রার চলক তৈরি করার প্রক্রিয়া ব্যাখ্যা করো। ৪ নং প্রশ্নের উত্তর

১. বিশ্লেষণের নিমিত্ত বীমের উপর টাইটার স্থাপন করলে বীমের প্রতি পাশের ভর সমান হলে চলক পাওয়া যায়, তাকে টাইটার ফ্লাস্ক বলে।

২. সেমি-মাইক্রো পদ্ধতি রাসায়নিক গুণগত বিশ্লেষণের একটি পদ্ধতি। এটি বিশ্লেষণের সময় প্রায় 100 মিলিগ্রাম রাসায়নিক উপাদান সন্নিবেশিত ও বিশ্লেষণের বিশ্লেষণে ব্যবহৃত হয়। এ পদ্ধতিতে খুব কম পরিমাণ (0.05 থেকে 0.2g কঠিন বা 2-4ml তরল দ্রব্য) রাসায়নিক পদার্থ নিয়ে পরীক্ষা করা হয়। ফলে পরিবেশে মুদ্রণ উল্লেখযোগ্যভাবে কমে আসে। অতএব, কোনো কোনো ক্ষেত্রে কম কষ্টের রাসায়নিক দ্রব্য ব্যবহৃত হয়। ফলে পরিবেশে মুদ্রণের সম্ভাবনা কমে আসে। তাই সেমি-মাইক্রো পদ্ধতি পরিবেশ বান্দব।

৩. উদাহরণের চলকটি হলো সালফিউরিক এসিড (H₂SO₄) এর 10 M চলক। H₂SO₄ একটি জারক ও ক্ষয়কারী পদার্থ। H₂SO₄ এর 10 M চলক হলে পাত্র H₂SO₄ চলক। পাত্র H₂SO₄ পদার্থকে ক্ষয়কারী হ্যাঞ্জার প্রকৃতির হ্যাঞ্জার করা হয়। পাত্র H₂SO₄ এর জন্য ক্ষয়কারী হ্যাঞ্জার প্রকৃতির হ্যাঞ্জার করা হয়। পাত্র H₂SO₄ এর জন্য ক্ষয়কারী হ্যাঞ্জার প্রকৃতির হ্যাঞ্জার করা হয়।

প্রকৃতি

ক্ষয়কারী (Corrosive)



আয়তন

ক্ষয়কারী রাসায়নিক উপাদান চলক যে ক্ষয়কারী রাসায়নিক দ্রব্যকে ক্ষয়কারী হ্যাঞ্জার করা হয়। এতে তরল পুড়ে যায় এবং অন্যদিকে পাত্রও ক্ষয় হয়।

উদাহরণ

পাত্র কঠিন এসিডসলফিউরিক (HCl, HNO₃, H₂SO₄) পাত্র ক্ষয় (NaOH, KOH, H₂O₂) জারক/বিজারক লিকার প্রকৃতির চলক ইত্যাদি।

সংরক্ষণ

- পাত্র এসিডকে পোতলে রাখতে হবে।
- পাত্র ক্ষয়কে, জারক/বিজারক/লিকারকে পোতলে রাখতে হবে।

উদাহরণের চলকটি হলো 10M H₂SO₄ চলক এবং এর থেকে 1M ঘনমাত্রার চলক প্রস্তুত করতে হবে 1ম ও ২ম চলকের ব্যবহার করতে হবে।

1ম চলকপ্রকৃতি হলো 100 ml জারক/বিজারক চলক ও এর টি হলো পিপিটি। সেমি-মাইক্রো রাসায়নিক উপাদানের 100 ml, তাই আমাদের 100 ml 1M ঘনমাত্রার H₂SO₄ চলক তৈরি করতে হবে। চলকের প্রস্তুতকরণ পুত্র হতে জানতে পারি।

$$V_1S_1 = V_2S_2$$

$$\text{বা, } V_1 = \frac{V_2S_2}{S_1}$$

$$= \left(\frac{100 \times 1}{10} \right) \text{ mL}$$

$$= 10 \text{ mL}$$

অতএব, 10ml H₂SO₄ চলকের সঙ্গে পানি যোগ করতে হবে (100-10) mL = 90 mL।

আবার, পিপিটির সাহায্যে 10 ml প্রথম ঘনমাত্রার চলক নিয়ে তার সাথে জারক/বিজারক চলকে 90 ml পানি যোগ করলে আমাদের 'কঠিন' ঘনমাত্রার চলক পাওয়া যায়।

উদাহরণ



চিত্র-A



চিত্র-B



চিত্র-C

১. অ্যাসিড/জারক/বিজারক কী?
২. সাদা চলক K₂ এর ঘনমাত্রা অসীম হয় না-ব্যাখ্যা করো।
৩. A চিত্রের হ্যাঞ্জারের উত্তর করার কৌশল বর্ণনা করো।
৪. B ও C চিত্রের সাথে সম্পর্কিত রাসায়নিক উপাদানের ব্যবহারকালে খান্দা কীভাবে চলকের উপর সম্পর্কিত বিশ্লেষণ করো। ৪ নং প্রশ্নের উত্তর

১. অ্যাসিড/জারক/বিজারক এক ধরনের রাসায়নিক বা কৃত্রিম দ্রব্য যা ক্ষয়কারী বা ক্ষয়কারী উপাদানসমূহকে জারক প্রক্রিয়ায় জারক থেকে রক্ষা করে থাকার সতর্কতা করে।

২. সামান্য K₂ এর ঘনমাত্রা অসীম বা শূন্য হতে পারে না। উদাহরণ ব্যাখ্যা করার জন্য নিম্নের উদাহরণী মাইক্রোপদ্ধতি বিশ্লেষণ করি-
 $A + B \rightarrow C + D$

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Michael Hoelscher



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Table of Contents Hsc Chemistry 1 First Chapter Notes

1. Understanding the eBook Hsc Chemistry 1 First Chapter Notes
 - The Rise of Digital Reading Hsc Chemistry 1 First Chapter Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Chemistry 1 First Chapter Notes
 - 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 1 First Chapter Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Chemistry 1 First Chapter Notes
 - Personalized Recommendations
 - Hsc Chemistry 1 First Chapter Notes User Reviews and Ratings

- Hsc Chemistry 1 First Chapter Notes and Bestseller Lists
- 5. Accessing Hsc Chemistry 1 First Chapter Notes Free and Paid eBooks
 - Hsc Chemistry 1 First Chapter Notes Public Domain eBooks
 - Hsc Chemistry 1 First Chapter Notes eBook Subscription Services
 - Hsc Chemistry 1 First Chapter Notes Budget-Friendly Options
- 6. Navigating Hsc Chemistry 1 First Chapter Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc Chemistry 1 First Chapter Notes Compatibility with Devices
 - Hsc Chemistry 1 First Chapter Notes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc Chemistry 1 First Chapter Notes
 - Highlighting and Note-Taking Hsc Chemistry 1 First Chapter Notes
 - Interactive Elements Hsc Chemistry 1 First Chapter Notes
- 8. Staying Engaged with Hsc Chemistry 1 First Chapter Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc Chemistry 1 First Chapter Notes
- 9. Balancing eBooks and Physical Books Hsc Chemistry 1 First Chapter Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc Chemistry 1 First Chapter Notes
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hsc Chemistry 1 First Chapter Notes
 - Setting Reading Goals Hsc Chemistry 1 First Chapter Notes
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsc Chemistry 1 First Chapter Notes
 - Fact-Checking eBook Content of Hsc Chemistry 1 First Chapter Notes
 - 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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