

ঘের ও কীটপতঙ্গের অংশের নির্ধারিত পটীকার প্রস্তুতকরণ

চলকের ঘনমাত্রা,

$$S = \frac{W}{V} = \frac{20}{36.5} \approx 1$$

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

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 দ্রবীভূত X-পদার্থিতে 10 mg এর মধ্যে কয় পরিমাণ দ্রব
এ X-পদার্থিতে 0.5 g 2% $\left(\frac{W}{V}\right)$ HCl দ্রব দিতে কাজ করা হয়েছে।

যদিও X-পদার্থটি হলো সেমি-মাইক্রো আনালিটিক্যাল পদার্থ ও
Y-পদার্থটি হলো ছোটো আনালিটিক্যাল পদার্থ। উভয় পদার্থের
ছোট সেমি-মাইক্রো পদার্থ পরিবেশে ব্যবহৃত। নিম্নে তা বিশ্লেষণ করা
হলো-

সেমি-মাইক্রো পদার্থি রাসায়নিক গুণগত বিশ্লেষণের একটি পদ্ধতি।
এটি বিশ্লেষণের সময় যথেষ্ট রাসায়নিক উপাদান সন্নিবেশন ও
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 দ্রুত বিশ্লেষণযোগ্যভাবে কমে আসে।
এছাড়া সেমি-মাইক্রো পদ্ধতিতে H₂S এর পরিবর্তে
কোয়েলিনাইট ব্যবহার করা হয় ফলে পরিবেশে দ্রুত ঘটে না।



অতএব, কোনো কোনো ক্ষেত্রে কম কষ্টের রাসায়নিক দ্রব্য ব্যবহৃত হয়।
ফলে পরিবেশে দ্রুতের সন্নিবেশ কমে আসে। তাই সেমি-মাইক্রো পদ্ধতি
পরিবেশে ব্যবহৃত।

চিত্র-১০



১. টাইটার দ্রবক কী?
২. সেমি-মাইক্রো পদ্ধতি পরিবেশে ব্যবহৃত কেন?
৩. চলকের জন্য প্রয়োজ্য হ্যাঞ্জার প্রতিকটি অঙ্কন করা এবং
ব্যাখ্যা করা।
৪. উদাহরণের অংশের চলক থেকে উপযুক্ত কাচ পাত্র ব্যবহার
করে 1M ঘনমাত্রার চলক তৈরি করার প্রক্রিয়া ব্যাখ্যা করা। ৪
ও নং প্রশ্নের উত্তর

৫. বিশ্লেষণের নিমিত্ত কীমের উপর টাইটার স্থাপন করলে কীমের প্রতি
দিকের জন্য যে দর পাওয়া যায়, তাকে টাইটার দ্রবক বলে।

৬. সেমি-মাইক্রো পদ্ধতি রাসায়নিক গুণগত বিশ্লেষণের একটি পদ্ধতি।
এটি বিশ্লেষণের সময় যথেষ্ট রাসায়নিক উপাদান সন্নিবেশন ও
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 দ্রুত বিশ্লেষণযোগ্যভাবে কমে আসে।
অতএব, কোনো কোনো ক্ষেত্রে কম কষ্টের রাসায়নিক দ্রব্য ব্যবহৃত হয়।
ফলে পরিবেশে দ্রুতের সন্নিবেশ কমে আসে। তাই সেমি-মাইক্রো পদ্ধতি
পরিবেশে ব্যবহৃত।

৭. উদাহরণের চলকটি হলো সালফিউরিক এসিড (H₂SO₄) এর 10 M
চল। H₂SO₄ একটি জারক ও ক্ষয়কারী পদার্থ। H₂SO₄ এর 10 M
চল যখন পাত্র H₂SO₄ চল। পাত্র H₂SO₄ পদার্থকে ক্ষয়কারী হ্যাঞ্জার
একভাবে অঙ্কন করা হয়। পাত্র H₂SO₄ এর জন্য ক্ষয়কারী হ্যাঞ্জার
একটি নিয়ে অঙ্কন করে ব্যাখ্যা করা হলো:

প্রতিক	ক্ষয়কারী (Corrosive)
আয়তন	ক্ষয়কারী রাসায়নিক উপাদান চলতে যে ক্ষয় রাসায়নিক দ্রব্যকে দ্রুতের দর সন্নিবেশে তুলে ও অন্য পদার্থের হ্যাঞ্জার ক্ষয় করিত হয়। এতে তুলে পুড়ে যায় এবং অন্যদ্য পদার্থ পুড়ে যায়।
উদাহরণ	পাত্র কঠিন এসিডসলফিউরিক (HCl, HNO ₃ , H ₂ SO ₄) পাত্র ক্ষয় (NaOH, KOH), H ₂ O ₂ , অক্সিজেন লিকার ক্রিডিং চলক ইত্যাদি।
সংরক্ষণ পাত্রটি	- পাত্র এসিডকে পোতলে রাখতে হবে। - পাত্র ক্ষয়কে, ক্ষয়কে পাত্রের পাত্রের পাত্রের পাত্রের রাখতে হবে।

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

1ম চলকটির হলো 100 mL অক্সিজেনমিতিক চলক ও এর টি হলো
নিম্নের। যেহেতু অক্সিজেনমিতিক চলকের আয়তন 100 mL, তাই
আমাদের 100 mL 1M ঘনমাত্রার H₂SO₄ চলক তৈরি করতে হবে।
চলকের সন্নিবেশ দ্রুত হতে জানতে পারি,

$$V_1 S_1 = V_2 S_2$$

$$\text{বা, } V_1 = \frac{V_2 S_2}{S_1}$$

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

$$= 10 \text{ mL}$$

অতএব, 10mL H₂SO₄ চলকের সঙ্গে পাত্র বেশ করতে হবে
(100-10) mL = 90 mL
আবার, পাত্রের সন্নিবেশে 10 mL চলকের ঘনমাত্রার চলক নিয়ে তার
সঙ্গে অক্সিজেনমিতিক চলকে 90 mL পাত্র বেশ করতে আমাদের
কঠিনত ঘনমাত্রার চলক পাওয়া যায়।

চিত্র-১১



১. অক্সিজেনমিতিক কীমের চলক?
২. সন্নিবেশ দ্রবক K₂ এর ঘন কখনো অসীম হয় না-ব্যাখ্যা
করা।
৩. A কীমের হ্যাঞ্জার উত্তর করার কৌশল বর্ণনা করা।
৪. B ও C কীমের সাথে সম্পর্কিত রাসায়নিক চলকের
ব্যবহারকালে খাখা কীম হ্যাঞ্জার উপর সম্পর্কে
বিশ্লেষণ করা। ৪
ও নং প্রশ্নের উত্তর

৫. অক্সিজেনমিতিক এক ধরনের রাসায়নিক বা কৃত্রিম দ্রব্য সন্নিবেশ
বা দ্রবত বা দ্রব্য উপাদানসমূহকে জারণ প্রক্রিয়ায় জারন থেকে রক্ষা করে
খাখার সন্নিবেশ করে।

৬. সামান্য K₂ এর ঘন কখনো অসীম বা শূন্য হতে পারে না।
উদাহরণ ব্যাখ্যা করার জন্য নিম্নের উত্তরদ্রব্য সন্নিবেশের
A + B $\longrightarrow$ C + D

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