

ঘের ও কীটপতঙ্গের অংশের নির্ধারিত পদ্ধতির প্রয়োগের

চলকের ঘনমাত্রা,

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

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

অতএব, HCl চলকের ঘনমাত্রা

$$= 0.5479 \text{ M}$$

এখানে,

$$W = 20 \text{ g}$$

$$HCl \text{ এর আপেক্ষিক ভর,}$$

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

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

$$\text{চলকের ঘনমাত্রা } S = ?$$

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
মধ্যে সেমি-মাইক্রো পদার্থটি পরিবেশে ব্যাপক। নিম্নে তা বিশ্লেষণ করা
হলো-

সেমি-মাইক্রো পদার্থটি রাসায়নিক গুণগত বিশ্লেষণের একটি পদার্থ।
এটি বিশ্লেষণের সময় যথেষ্ট রাসায়নিক উপাদান সন্নিবেশিত ও
বিশেষতঃ বিশ্লেষণে ব্যবহৃত হয়। এ পদার্থিতে খুব কম পরিমাণ (0.05
থেকে 0.2g কঠিন বা 2-4ml তরল দ্রব্য) রাসায়নিক পদার্থ নিয়ে
কাজ করা হয়। ফলে পরিবেশে দ্রবণ উল্লেখযোগ্যভাবে কমে আসে।
এছাড়া সেমি-মাইক্রো পদার্থিতে H_2SO_4 এর পরিমাণে
কোয়ালিটাইটি ব্যবহার করা হয় ফলে পরিবেশে দ্রবণ ঘটে না।



ফলে, কোনো কোনো ক্ষেত্রে কম কৃষির রাসায়নিক দ্রব্য ব্যবহৃত হয়।
ফলে পরিবেশে দ্রবণের সন্নিবেশ কমে আসে। তাই সেমি-মাইক্রো পদার্থটি
পরিবেশে ব্যাপক।

উদাহরণ



পাত্র-ক



পাত্র-খ



পাত্র-গ



H₂SO₄ 10M

১. উদাহরণে দ্রব কী?
২. সেমি-মাইক্রো পদার্থটি পরিবেশে ব্যাপক কেন?
৩. চলকের জন্য প্রয়োজ্য হ্যাঙ্গার প্রতীকটি অঙ্কন করে এবং ব্যাখ্যা করে।
৪. উদাহরণের অংশের দ্রবণ থেকে উপযুক্ত কাচ পাত্র ব্যবহার করে 1M ঘনমাত্রার দ্রবণ তৈরি করার প্রক্রিয়া ব্যাখ্যা করে। ৪ নং প্রশ্নের উত্তর

বিশ্লেষণের নিমিত্ত কীমের উপর রাইজার স্থাপন করলে কীমের প্রতি
দ্রবণের জন্য যে দর পাওয়া যায়, তাকে রাইজার দ্রবণ বলে।

সেমি-মাইক্রো পদার্থটি রাসায়নিক গুণগত বিশ্লেষণের একটি পদার্থ।
এটি বিশ্লেষণের সময় যথেষ্ট রাসায়নিক উপাদান সন্নিবেশিত ও
বিশেষতঃ বিশ্লেষণে ব্যবহৃত হয়। এ পদার্থিতে খুব কম পরিমাণ
(0.05 থেকে 0.2g কঠিন বা 2-4ml তরল দ্রব্য) রাসায়নিক পদার্থ নিয়ে
কাজ করা হয়। ফলে পরিবেশে দ্রবণ উল্লেখযোগ্যভাবে কমে আসে।
ফলে, কোনো কোনো ক্ষেত্রে কম কৃষির রাসায়নিক দ্রব্য ব্যবহৃত হয়।
ফলে পরিবেশে দ্রবণের সন্নিবেশ কমে আসে। তাই সেমি-মাইক্রো পদার্থটি
পরিবেশে ব্যাপক।

উদাহরণের দ্রবণটি হলো সালফিউরিক এসিড (H_2SO_4) এর 10 M
দ্রব। H_2SO_4 একটি জারক ও ক্ষয়কারী পদার্থ। H_2SO_4 এর 10 M
দ্রব মধ্যে পাত্র H_2SO_4 দ্রবণ। পাত্র H_2SO_4 পদার্থকে ক্ষয়কারী হ্যাঙ্গার
প্রতীক অঙ্কন করা হয়। পাত্র H_2SO_4 এর জন্য ক্ষয়কারী হ্যাঙ্গার
প্রতীক নিয়ে অঙ্কন করে ব্যাখ্যা করা হলো:

প্রতীক	ক্ষয়কারী (Corrosive)
আয়তন	ক্ষয়কারী রাসায়নিক উপাদান কয়েক সে মিলিমিটার রাসায়নিক দ্রব্যকে দুই মিনিটের মধ্যে ক্ষয় করে দেয়। এতে ত্বক পুড়ে যায় এবং অন্যান্য পদার্থ পুড়ে যায়।
উদাহরণ	পাত্র ক্লোরিক এসিডসলফিউরিক এসিড (HCl , HNO_3 , H_2SO_4), পাত্র ক্ষয় ($NaOH$, KOH), H_2O_2 , অক্সিজেন লিকার প্রভৃতি দ্রবণ ইত্যাদি।
সংরক্ষণ পাত্র	- পাত্র এসিডকে পোতলে রাখতে হবে। - পাত্র ক্ষয়কে, ক্ষয়কারী পদার্থের পিছনে রাখতে হবে।

উদাহরণের দ্রবণটি হলো 10M H_2SO_4 দ্রবণ এবং এর থেকে 1M
ঘনমাত্রার দ্রবণ প্রস্তুত করতে হবে 1ম ও ২ম চলকের ব্যবহার করে
হবে।

1ম চলকের দ্রবণ হলো 100 ml অক্সিজেনমিত্রিক দ্রবণ ও এর দি হলো
নিম্নের। যেহেতু অক্সিজেনমিত্রিক দ্রবণের আয়তন 100 ml, তাই
আমাদের 100 ml 1M ঘনমাত্রার H_2SO_4 দ্রবণ তৈরি করতে হবে।
দ্রবণের সন্নিবেশ দ্রব হতে আসবে তাই,

$$V_1 S_1 = V_2 S_2$$

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

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

$$= 10 \text{ mL}$$

অতএব, 10ml H_2SO_4 দ্রবণের সঙ্গে পানি যোগ করতে হবে
(100-10) mL = 90 mL
আবার, নিম্নের দ্রবণে 10 ml দ্রবণ ঘনমাত্রার দ্রবণ নিয়ে তার
সঙ্গে অক্সিজেনমিত্রিক দ্রবণে 90 ml পানি যোগ করলে আমাদের
কামিষ্ঠ ঘনমাত্রার দ্রবণ পাওয়া যাবে।

উদাহরণ



চিত্র-A



চিত্র-B



চিত্র-C

১. অক্সিজেনমিত্রিক কী বলে?
২. সাদা দ্রবণ K₂ এর ঘন কখনো অসীম হয় না-ব্যাখ্যা করে।
৩. A চিত্রের হ্যাঙ্গারের উত্তর করার কৌশল বর্ণনা করে।
৪. B ও C চিত্রের সাথে সম্পর্কিত রাসায়নিক দ্রবণের ব্যবহারকালে খাখা কৃষ্ণি দ্রবণে কবীর উপর সম্পর্ক বিশ্লেষণ করে। ৪ নং প্রশ্নের উত্তর

অক্সিজেনমিত্রিক এক ধরনের রাসায়নিক বা কৃত্রিম দ্রবণ সঞ্চেপ
বা দ্রবণ বা উপাদানসমূহকে জারণ প্রক্রিয়ায় আসন থেকে তুলে
খাখার সঞ্চেপ করে।

সামান্য K₂ এর ঘন কখনো অসীম বা শূন্য হতে পারে না।
উদাহরণ ব্যাখ্যা করার জন্য নিম্নের উত্তরদ্রব্য মাইক্রোপদার্থ বিশ্লেষণ করি-
 $A + B \longrightarrow C + D$

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