

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 এর আপেক্ষিক ভর,

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

চলকের আয়তন, $V = 1 \text{ L}$

চলকের ঘনমাত্রা $S = 1$

উদাহরণে উল্লিখিত N -পদ্ধতিতে 10 mg এর মধ্যে কয় পরিমাণ দ্রব V -পদ্ধতিতে 0.2 g 2% $\left(\frac{W}{V}\right)$ HCl দ্রব দিতে কাজ করা হয়েছে।

যদিও N -পদ্ধতিটি হলো সেমি-মাইক্রো আনালিটিক্যাল পদ্ধতি ও V -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 যথেষ্ট রাসায়নিক উপাদান সন্নিবেশিত ও পরিমাপের বিশ্লেষণে ব্যবহৃত হয়। এ পদ্ধতিতে দ্রব তার পরিমাণ $(0.05 \text{ থেকে } 0.2 \text{ g}$ কঠিন বা $2-4 \text{ mL}$ তরল দ্রব্য) রাসায়নিক পদার্থ নিয়ে পরীক্ষা করা হয়। ফলে পরিবেশ দ্রবণ উল্লেখযোগ্যভাবে কমে আসে।

এছাড়া সেমি-মাইক্রো পদ্ধতিতে H_2SO_4 এর পরিমাণে কয়েকটিমাইক্রো ব্যবহার করা হয় ফলে পরিবেশ দ্রবণ ঘটে না।



অতএব, কোনো কোনো ক্ষেত্রে কম কৃত্রিম রাসায়নিক দ্রব্য ব্যবহৃত হয়। ফলে পরিবেশ দ্রবণের সন্নিবেশ কমে আসে। তাই সেমি-মাইক্রো পদ্ধতি পরিবেশ বান্দব।

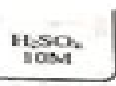
উদাহরণ



পাত্র-ক



পাত্র-খ



পাত্র-গ

১. টাইট্রার দ্রবক কী?
২. সেমি-মাইক্রো পদ্ধতি পরিবেশ বান্দব কেন?
৩. চলকের জন্য প্রয়োজ্য হ্যাঞ্জার প্রক্রিয়াটি অঙ্কন করে এবং ব্যাখ্যা করে।
৪. উদাহরণের অংশের দ্রবণ থেকে উপযুক্ত কাচ পাত্র ব্যবহার করে 1 M ঘনমাত্রার দ্রবণ তৈরি করার প্রক্রিয়া ব্যাখ্যা করে। ৪ ও নং প্রশ্নের উত্তর

৫. বিশ্লেষণের নিমিত্ত বীমের উপর টাইট্রার স্থাপন করলে বীমের প্রতি পাশের স্কেল যে দর পাওয়া যায়, তাকে টাইট্রার দ্রবক বলে।

৬. সেমি-মাইক্রো পদ্ধতি রাসায়নিক গুণগত বিশ্লেষণের একটি পদ্ধতি। এটি বিশ্লেষণের সময় যথেষ্ট রাসায়নিক উপাদান সন্নিবেশিত ও পরিমাপের বিশ্লেষণে ব্যবহৃত হয়। এ পদ্ধতিতে দ্রব তার পরিমাণ $(0.05 \text{ থেকে } 0.2 \text{ g}$ কঠিন বা $2-4 \text{ mL}$ তরল দ্রব্য) রাসায়নিক পদার্থ নিয়ে পরীক্ষা করা হয়। ফলে পরিবেশ দ্রবণ উল্লেখযোগ্যভাবে কমে আসে। অতএব, কোনো কোনো ক্ষেত্রে কম কৃত্রিম রাসায়নিক দ্রব্য ব্যবহৃত হয়। ফলে পরিবেশ দ্রবণের সন্নিবেশ কমে আসে। তাই সেমি-মাইক্রো পদ্ধতি পরিবেশ বান্দব।

৭. উদাহরণের চলকটি 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 যখন পাত্র H_2SO_4 দ্রবণ। পাত্র H_2SO_4 পদার্থকে ক্ষয়কারী হ্যাঞ্জার প্রক্রিয়ায় জরুরি করা হয়। পাত্র H_2SO_4 এর জন্য ক্ষয়কারী হ্যাঞ্জার প্রক্রিয়ায় অঙ্কন করে ব্যাখ্যা করা হলো:

প্রক্রিয়া	ক্ষয়কারী (Corrosive)
আমদান	ক্ষয়কারী রাসায়নিক উপাদান কলতে যে ক্ষয়জনক রাসায়নিক দ্রব্যকে দ্রবণের দর সংশ্লিষ্ট দ্রব ও অন্যান্য পদার্থের মধ্যকার ক্ষয়জনক ক্ষয়জনিত হয়। এতে দ্রব পুড়ে যায় এবং অন্যান্য পদার্থ পুড়ে যায়।
উদাহরণ	পাত্র কঠিন এসিডসলফিউরিক (HCl , HNO_3 , H_2SO_4), পাত্র ক্ষয় (NaOH , KOH), H_2O_2 , অক্সিজেন লিকার প্রভৃতি দ্রবণ ইত্যাদি।
সংরক্ষণ পদ্ধতি	- পাত্র এসিডকে পোতলে রাখতে হবে। - পাত্র ক্ষয়কে, ক্ষয়জনক পদার্থের পিছনে রাখতে হবে।

৮. উদাহরণের চলকটি হলো 10 M H_2SO_4 দ্রবণ এবং এর থেকে 1 M ঘনমাত্রার দ্রবণ প্রস্তুত করতে হবে 1 M ও এর কাছাকাছি রাখতে হবে।

1 M কাছাকাছি হলো 100 mL আয়তনমিতিক দ্রবণ ও এর টি হলো পিপিটি। সেমি-মাইক্রো আয়তনমিতিক দ্রবণের আয়তন 100 mL । তাই আমাদের 100 mL 1 M ঘনমাত্রার H_2SO_4 দ্রবণ তৈরি করতে হবে। দ্রবণের সন্নিবেশ দ্রব হতে আসবে তাই-

$$V_1 S_1 = V_2 S_2$$

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

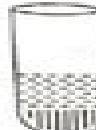
$$= \left(\frac{100 \times 1}{10} \right) \text{ mL}$$

$$= 10 \text{ mL}$$

অতএব, 10 mL H_2SO_4 দ্রবণের সঙ্গে পানি যোগ করতে হবে $(100 - 10) \text{ mL} = 90 \text{ mL}$ ।

অতএব, পিপিটির সাহায্যে 10 mL দ্রবণ ঘনমাত্রার দ্রবণ নিয়ে তার সাথে আয়তনমিতিক দ্রবণে 90 mL পানি যোগ করলে আমাদের কাঙ্ক্ষিত ঘনমাত্রার দ্রবণ পাওয়া যাবে।

উদাহরণ



চিত্র-A



চিত্র-B



চিত্র-C

১. অ্যাসিডব্রিডেট কাকে বলে?
২. সাদা দ্রবক K_2 এর ঘন কখনো অসীম হয় না-ব্যাখ্যা করে।
৩. A ডিফের হ্যাঞ্জারের উত্তর করার কৌশল বর্ণনা করে।
৪. B ও C ডিফের সাথে সম্পর্কিত রাসায়নিক দ্রবণের ব্যবহারকালে খান্দা কৃতি দ্রবণে কবীর উপর সম্পর্ক বিশ্লেষণ করে। ৪ ও নং প্রশ্নের উত্তর

৫. অ্যাসিডব্রিডেট এক ধরনের রাসায়নিক বা কৃত্রিম দ্রবণ সঞ্চেদ বা মুদ্রা বা উপাদানসমূহকে জারণ প্রক্রিয়ায় জরন থেকে রক্ষা করে রাখার সঞ্চেদ।

৬. সামান্য K_2 এর ঘন কখনো অসীম বা শূন্য হতে পারে না। উদাহরণ ব্যাখ্যা করার জন্য নিম্নের উত্তরদ্রব্য মাইক্রোপদ্ধতি বিশ্লেষণ করি-
 $A + B \longrightarrow C + D$

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Lei Shi

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

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