

ঘের ও কীটপতঙ্গের অংশের নির্ধারিত পটীকার প্রস্তুতকরণ

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,

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

HCl এর আপেক্ষিক ভর,

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

চলকের আয়তন, $V = 1 \text{ L}$

চলকের ঘনমাত্রা $S = ?$

উদাহরণে উল্লিখিত N -পদ্ধতিতে 10 mg এর মধ্যে কয় পরিমাণ দ্রব্য V -পদ্ধতিতে 0.5 g 2% $\left(\frac{W}{V}\right)$ HCl দ্রবণ দিয়ে তৈরি 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-

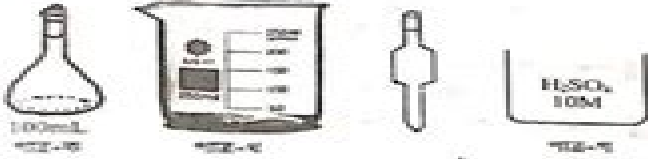
সেমি-মাইক্রো পদ্ধতি রাসায়নিক গুণগত বিশ্লেষণের একটি পদ্ধতি। এটি বিশ্লেষণের সময় প্রায় 100 ml রাসায়নিক উপাদান সন্নিবেশিত ও বিশ্লেষণের বিশ্লেষণে ব্যবহৃত হয়। এ পদ্ধতিতে খুব কম পরিমাণ (0.05 থেকে 0.2g কঠিন বা 2-4ml তরল দ্রব্য) রাসায়নিক পদার্থ নিয়ে পরীক্ষা করা হয়। ফলে পরিবেশে দূষণ উল্লেখযোগ্যভাবে কমে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

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



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

চিত্র-১০



১. উদাহরণে দ্রব্যের কী?
২. সেমি-মাইক্রো পদ্ধতি পরিবেশ বান্দব 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

৫. বিশ্লেষণের নিমিত্ত বীমের উপর রাইডার স্থাপন করলে বীমের প্রতি সারকে কতটা স্কেল পাওয়া যায়, তাকে রাইডার দ্রব্যক বলে।

৬. সেমি-মাইক্রো পদ্ধতি রাসায়নিক গুণগত বিশ্লেষণের একটি পদ্ধতি। এটি বিশ্লেষণের সময় প্রায় 100 ml 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 দূষণ উল্লেখযোগ্যভাবে কমে আসে।

৭. উদাহরণের দ্রবণটি হলো সালফিউরিক এসিড (H_2SO_4) এর 10 M দ্রবণ। H_2SO_4 একটি জারক ও ক্ষয়কারী পদার্থ। H_2SO_4 এর 10 M দ্রবণ দ্রবণ 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 অঙ্কন করে ব্যাখ্যা করা হলো:

প্রতীক	ক্ষয়কারী (Corrosive)
আয়তন	ক্ষয়কারী রাসায়নিক উপাদান কলতে যে ক্ষয়জনক রাসায়নিক দ্রব্যকে দ্রবণের দ্রব সলুশনে তুলে ও অন্যদিকে পাত্রের দ্রবণের ক্ষয়জনক ক্ষয়জনক হয়। এতে তুলে পুড়ে যায় এবং অন্যদিকে পাত্রের দ্রবণ হয়।
উদাহরণ	পাত্র কঠিন এসিডসলফিউরিক (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, ক্ষয়জনক পাত্রের দ্রবণের পাত্রের পোতলে রাখতে হবে।

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

1M কাছাকাছি হলো 100 ml অক্সিজেনমিত্রিক দ্রবণ ও এর টি হলো পিপিটি। সেমি-মাইক্রো অক্সিজেনমিত্রিক দ্রবণের আয়তন 100 ml, তাই আমাদের 100 ml 1M ঘনমাত্রার H_2SO_4 দ্রবণ তৈরি করতে হবে।

$$V_1 S_1 = V_2 S_2$$

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

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

$$= 10 \text{ mL}$$

অতএব, 100ml H_2SO_4 দ্রবণের সঙ্গে পানি যোগ করতে হবে (100-10) mL = 90 mL।

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

চিত্র-১১



১. অক্সিজেনমিত্রিক কলতে কল?
২. সাদা দ্রব্য K, এর ঘন কলকে অসীম হয় বা-ব্যাখ্যা করে।
৩. A কলকে হ্যাঙ্গার প্রতীক অঙ্কন করার কৌশল বর্ণনা করে।
৪. B ও C কলকে সাদা দ্রব্যে দ্রবণিত রাসায়নিক দ্রব্যের ব্যবহারকালে খান্ডা কুঁচি দ্রবণে কলটির উপর দ্রবণের বিশ্লেষণ করে। ৪ নং প্রশ্নের উত্তর

৫. অক্সিজেনমিত্রিক এক ধরনের রাসায়নিক বা কৃত্রিম দ্রব্য সলুশন বা দ্রবণ বা উপাদানসমূহকে জারণ প্রক্রিয়ায় জাল থেকে তুলে করে খাবার সলুশন করে।

৬. সামান্য K, এর ঘন কলকে অসীম বা শূন্য হতে পারে না। উদাহরণ ব্যাখ্যা করার জন্য নিম্নের উদাহরণী মাইক্রোপট বিশ্লেষণ করি-
 $A + B \rightarrow C + D$

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D Kirk



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