

ঘের ও কীটপতঙ্গের অংশের নির্ধারিত পদ্ধতির প্রয়োগের

চলকের ঘনমাত্রা,

$$S = \frac{W}{V} = \frac{20}{16.5} \approx 1$$

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

অতএব, HCl চলকের ঘনমাত্রা

$$= 0.5479 \text{ M}$$

এখানে,

মলের ভর, $m = 20 \text{ g}$

HCl এর আপেক্ষিক ভর,

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

চলকের আয়তন, $V = 1 \text{ L}$

চলকের ঘনমাত্রা $S = ?$

উদাহরণে দ্রবীভূত X-পদার্থিতে 10 mg এর মধ্যে কত 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 পদ্ধতি ও
Y-পদার্থটি হলো ছোটো 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
নিয়ন্ত্রিত বিশ্লেষণে ব্যবহৃত হয়। এ পদ্ধতিতে খুব কম পরিমাণ (0.05
থেকে 0.2g কঠিন বা 2-4ml তরল দ্রব্য) রাসায়নিক পদার্থ নিয়ে
কাজ করা হয়। ফলে পরিবেশ দূষণ উল্লেখযোগ্যভাবে কমে আসে।
এছাড়া সেমি-মাইক্রো পদ্ধতিতে H_2S এর পরিবর্তে
কোয়েলিনাইট ব্যবহার করা হয় ফলে পরিবেশ দূষণ ঘটে না।



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

চিত্র-১০



১. টাইটার দ্রবক কী?
২. সেমি-মাইক্রো পদ্ধতি পরিবেশ বান্দব কেন?
৩. চলকের জন্য প্রয়োজ্য হ্যাঞ্জার প্রকৃতিটি অঙ্কন করো এবং
ব্যাখ্যা করো।
৪. উদাহরণের অংশের চরণ থেকে উপযুক্ত কাচ পাত্র ব্যবহার
করে 1M ঘনমাত্রার দ্রব তৈরি করার প্রক্রিয়া ব্যাখ্যা করো। ৪
ও না প্রদেয় উত্তর

৫. বিশ্লেষণের নিম্নের ধর্মের উপর টাইটার স্থাপন করলে ধর্মের প্রতি
সময়ের জন্য যে চর পাওয়া যায়, তাকে টাইটার দ্রবক বলে।

৬. সেমি-মাইক্রো পদ্ধতি রাসায়নিক গুণগত বিশ্লেষণের একটি পদ্ধতি।
এটি বিশ্লেষণের সময় যথেষ্ট রাসায়নিক উপাদান সন্নিবেশিত ও
নিয়ন্ত্রিত বিশ্লেষণে ব্যবহৃত হয়। এ পদ্ধতিতে খুব কম পরিমাণ
(0.05 থেকে 0.2g কঠিন বা 2-4ml তরল দ্রব্য) রাসায়নিক পদার্থ নিয়ে
কাজ করা হয়। ফলে পরিবেশ দূষণ উল্লেখযোগ্যভাবে কমে আসে।
অতএব, কোনো কোনো ক্ষেত্রে কম কষ্টের রাসায়নিক দ্রব্য ব্যবহৃত হয়।
ফলে পরিবেশ দূষণের সম্ভাবনা কমে আসে। তাই সেমি-মাইক্রো পদ্ধতি
পরিবেশ বান্দব।

৭. উদাহরণের চরণটি 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 পাত্রে H_2SO_4 দ্রব। পাত্রে H_2SO_4 পদার্থকে ক্ষয়কারী হ্যাঞ্জার
এরই অংশের করা হয়। পাত্রে H_2SO_4 এর অন্য ক্ষয়কারী হ্যাঞ্জার
এরই নিয়ে অঙ্কন করে ব্যাখ্যা করা হলো:

প্রকৃতি	ক্ষয়কারী (Corrosive)
আয়তন	ক্ষয়কারী রাসায়নিক উপাদান কয়েক সে মিলিমিটার প্রস্থের দ্রব্যকে দুইটি ঘর সংলগ্নে তুলে ও অন্যদিকে পাত্রে রাখলে ক্ষয়কারী ক্ষতি সঞ্চিত হয়। এতে তুলে পুড়ে যায় এবং অন্যদিকে পাত্রে পড়ে যায়।
উপাদান	পাত্রে কঠিন এসিডসমূহ (HCl , HNO_3 , H_2SO_4) পাত্র ফলে (NaOH , KOH , H_2O_2) জারকগুলি লিকার প্রতিঃ দ্রব ইত্যাদি।
সংরক্ষণ পদ্ধতি	- পাত্র এসিডকে পোতলে রাখতে হবে। - পাত্র ফাটলে, এরই পাত্রে পাত্রের পিছলকে পোতলে রাখতে হবে।

৮. উদাহরণের চরণটি হলো 10M H_2SO_4 দ্রব এবং এর থেকে 1M
ঘনমাত্রার দ্রব প্রস্তুত করতে হবে 1ম ও ২ম চলকের ব্যবহার করতে
হবে।

1ম চলকের দ্রব 100 ml জারকমিতিক চাপক ও এর টি হলো
নিম্নের। যেহেতু জারকমিতিক চলকের জারক 100 ml, তাই
আমাদের 100 ml 1M ঘনমাত্রার H_2SO_4 দ্রব তৈরি করতে হবে।
চলকের দ্রবের দ্রব 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 H_2SO_4 দ্রবের সঙ্গে পানি যোগ করতে হবে
(100-10) mL = 90 mL
আবার, নিম্নের দ্রব্যে 10 ml দ্রব ঘনমাত্রার দ্রব নিয়ে তার
সঙ্গে জারকমিতিক চাপকে 90 ml পানি যোগ করলে আমাদের
কামিষ্ট ঘনমাত্রার দ্রব পাওয়া যাবে।

চিত্র-১১



১. অ্যাসিডমিট্রিক কয়েক বসে?
২. সাদা দ্রবক K, এর ঘন কখনো অসীম হয় না-ব্যাখ্যা
করো।
৩. A চিত্রের হ্যাঞ্জার উত্তর করার কৌশল বর্ণনা করো।
৪. B ও C চিত্রের সাথে সম্পর্কিত রাসায়নিক দ্রব্যের
ব্যবহারকালে খান্দা কৃতি দ্রব কবীর উপর সম্পর্কে
বিশ্লেষণ করো। ৪
ও না প্রদেয় উত্তর

৯. অ্যাসিডমিট্রিক এক ধরনের রাসায়নিক বা কৃত্রিম দ্রব্য সঞ্চেপ
বা দ্রব বা উপাদানসমূহকে জারক প্রক্রিয়ায় জারক থেকে তুলে
খান্দা সঞ্চেপ করে।

১০. সামান্য K, এর ঘন কখনো অসীম বা শূন্য হতে পারে না।
উদাহরণ ব্যাখ্যা করার জন্য নিম্নের উদাহরণ মাইক্রোমিটার বিশ্লেষণ করি-
 $A + B \longrightarrow C + D$

Hsc Chemistry 1 First Chapter Notes

Jim Stamell



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Excel HSC Chemistry Jim Stamell, 2011 ISBN 9781741252996 AUTHOR Jim Stamell RRP 39 95 PAGES 428 pp
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