

**ঘের ও কীটপতঙ্গের অংশের নির্ধারিত পরীক্ষার প্রয়োজক**

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,

চলকের ভর,  $m = 20 \text{ g}$

HCl এর আপেক্ষিক ভর,

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

চলকের আয়তন,  $V = 1 \text{ L}$

চলকের ঘনমাত্রা  $S = 1$

উদাহরণে উল্লিখিত  $N_2$ -সংশ্লিষ্টে  $10 \text{ mg}$  এর মধ্যে কয় পরিমাণ  $N_2$   $V_1$ -সংশ্লিষ্টে  $0.5 \text{ g}$   $2\%$   $\left(\frac{W}{V}\right)$  HCl নমুনা নিয়ে কাজ করা হয়েছে।

যদিও  $N_2$ -সংশ্লিষ্ট হলো সেমি-মাইক্রো আনালিটিক্যাল পদ্ধতি ও  $V_1$ -সংশ্লিষ্ট 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 বিশুদ্ধতায় বিশুদ্ধতায় 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 মুদ্রণ উল্লেখযোগ্যভাবে কমে আসে।

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

$(CH_3NH_2 + H_2O \rightarrow CH_3NH_3^+ + OH^-)$  ফলে, কোনো কোনো ক্ষেত্রে কম কৃত্রিম রাসায়নিক দ্রব্য ব্যবহৃত হয়। ফলে পরিবেশে মুদ্রণের সম্ভাবনা কমে আসে। তাই সেমি-মাইক্রো পদ্ধতি পরিবেশ বান্দব।

**চিত্র-১০**



১. উদাহরণে চলকের কী?
২. সেমি-মাইক্রো পদ্ধতি পরিবেশ বান্দব কেন?
৩. চলকের জন্য প্রয়োজ্য হ্যান্ডলার প্রকৃতিটি অঙ্কন করে এবং ব্যাখ্যা করে।
৪. উদাহরণের অংশের চলক থেকে উপযুক্ত কাচ পাত্র ব্যবহার করে 1M ঘনমাত্রার চলক তৈরি করার প্রক্রিয়া ব্যাখ্যা করে। ৪ নং প্রশ্নের উত্তর

৫. বিশ্লেষণের নিমিত্ত বীমের উপর রাইজার স্থাপন করলে বীমের প্রতি পাঠকের জন্য যে ভর পাওয়া যায়, তাকে রাইজার চলক বলে।

সেমি-মাইক্রো পদ্ধতি রাসায়নিক গুণগত বিশ্লেষণের একটি পদ্ধতি। এটি বিশ্লেষণের সময় যথেষ্ট রাসায়নিক উপাদান সন্নিবেশিত ও বিশুদ্ধতায় বিশুদ্ধতায় 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 মুদ্রণ উল্লেখযোগ্যভাবে কমে আসে।

উদাহরণের চলকটি হলো সালফিউরিক এসিড ( $H_2SO_4$ ) এর 10 M চলক।  $H_2SO_4$  একটি জারক ও ক্ষয়কারী পদার্থ।  $H_2SO_4$  এর 10 M চলক যখন পাত্র  $H_2SO_4$  চলক। পাত্র  $H_2SO_4$  পদার্থকে ক্ষয়কারী হ্যান্ডলার প্রকৃতির অঙ্গুলি করা হয়। পাত্র  $H_2SO_4$  এর জন্য ক্ষয়কারী হ্যান্ডলার প্রকৃতি নিয়ে অঙ্কন করে ব্যাখ্যা করা হলো:

প্রকৃতি	ক্ষয়কারী (Corrosive)
আয়তন	ক্ষয়কারী রাসায়নিক উপাদান চলকে যে ক্ষয়জনক রাসায়নিক দ্রব্যকে মুদ্রণের সময় সংশ্লিষ্টে তুলে ও অন্যদিকে পাত্রের মাধ্যমে ক্ষয়জনক ক্ষয়জনিত হয়। এতে তুলে পুড়ে যায় এবং অন্যদিকে পাত্রের পুড়ে যায়।
উদাহরণ	পাত্র কঠিন এসিডসলফিউরিক ( $HCl$ , $HNO_3$ , $H_2SO_4$ ), পাত্র ক্ষয় ( $NaOH$ , $KOH$ ), $H_2O_2$ , অ্যাসেনিক অক্সাইড লিকার প্রভৃতি চলক উদাহরণ।
সংরক্ষণ পাত্র	<ul style="list-style-type: none"> <li>পাত্র এসিডকে পোতলে রাখতে হবে।</li> <li>পাত্র ক্ষয়কে, ক্ষয়জনক পাত্রের পাত্রের পাত্রের পাত্রের রাখতে হবে।</li> </ul>

উদাহরণের চলকটি হলো 10M  $H_2SO_4$  চলক এবং এর থেকে 1M ঘনমাত্রার চলক প্রস্তুত করতে হবে 1ম ও ২য় চলকের ব্যবহার করতে হবে।

1ম চলকপ্রস্তুতি হলো 100 ml অ্যাসেনিক অক্সাইড চলক ও এর টি হলো পিপিটি। সেমি-মাইক্রো অ্যাসেনিক অক্সাইড চলকের আয়তন 100 ml। তাই আমাদের 100 ml 1M ঘনমাত্রার  $H_2SO_4$  চলক তৈরি করতে হবে। চলকের গণনাচলক পাত্র থেকে জানতে পারি,

$$V_1 S_1 = V_2 S_2$$

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

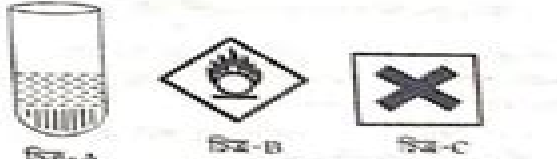
$$= \left( \frac{100 \times 1}{10} \right) \text{ mL}$$

$$= 10 \text{ mL}$$

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

আবার, পিপিটির মাধ্যমে 10 ml চলকের ঘনমাত্রার চলক নিয়ে তার সাথে অ্যাসেনিক অক্সাইড চলকে 90 ml পানি যোগ করলে আমাদের কামিষ্ঠ ঘনমাত্রার চলক পাওয়া যাবে।

**চিত্র-১১**



১. অ্যাসিডক্লোরাইডের কীভাবে চলক?
২. সাদা চলক  $K_2$  এর ঘন কখনো অসীম হয় না-ব্যাখ্যা করে।
৩. A চিত্রের হ্যান্ডলার উত্তর করার কৌশল বর্ণনা করে।
৪. B ও C চিত্রের মাধ্যমে সম্পর্কিত রাসায়নিক চলকটির ব্যবহারকালে খাম্বা কৃতি চলক কবীর উপর সম্পর্কিত বিশ্লেষণ করে। ৪ নং প্রশ্নের উত্তর

অ্যাসিডক্লোরাইড এক ধরনের রাসায়নিক বা কৃত্রিম দ্রব্য। সর্বোচ্চ বা মুদ্রণ বা উপাদানসমূহকে জারণ প্রক্রিয়ায় জাল থেকে তুলে করে খাবার সংরক্ষণ করে।

সামান্য  $K_2$  এর ঘন কখনো অসীম বা শূন্য হতে পারে না। উদাহরণে ব্যাখ্যা করার জন্য নিম্নের উত্তরদুই মাইক্রোপরি বিশ্লেষণ করি-  
 $A + B \rightarrow C + D$

# Hsc Chemistry 1 First Chapter Notes

**Shasha Hu**



## Hsc Chemistry 1 First Chapter Notes:

**Excel HSC Chemistry** Jim Stamell, 2011 ISBN 9781741252996 AUTHOR Jim Stamell RRP 39 95 PAGES 428 pp SPECIFICATION Softcover perfect bound 280 mm x 210 mm STATUS New edition PUBLICATION DATE April 2008 The EXCEL HSC Chemistry guide is directly linked to the syllabus with every single dot point of the HSC Chemistry syllabus appearing in the margin of the book You can write in the guide so your study is focused and your notes are structured This guide comes in a brand new format that makes even better use of your study time up to date coverage of the core topics plus 3 Option topics Industrial Chemistry Shipwrecks Corrosion and Conservation and Forensic Chemistry this guide is organised just like the HSC syllabus so the students learn to section the theoretical part is under routine headings and the students section the practical part is under headings like First hand Second hand and Investigations and Problem Solving %this way you will be able to see at a glance what the theoretical and practical work is all main headings in each chapter 1 1 2 1 etc are directly from the syllabus word for word %this way you can easily match the Excel guide to the syllabus an alphabetical list of all the key definitions and concepts you should know from each chapter %an efficient way of learning all the definitions in one go chapter syllabus checklist with every single dot point listed in checklist form for each chapter %a fantastic way of testing that you know all the work hundreds of key concept questions with answers %questions that test you recall of knowledge in each chapter HSC type questions for every section in each chapter with clock icons to tell you how much time you will have to answer the questions in the HSC %this way you can test yourself on HSC type questions under HSC type time pressure an examiner maximiser feature ticks to show the mark distribution and answers to all HSC type questions %all you need to answer HSC type questions two sample HSC papers with an examiner maximiser feature plus answers %not one but two up to date sample papers the Excel syllabus summary notes a detachable section at the end of the guide where every single dot point of each chapter is summarised for you% a comprehensive and compact summary of the whole course in 32 pages The American Journal of Science ,1911 **The academy** ,1890 "The" Athenaeum ,1897

**The Academy and Literature** ,1890 **Excel HSC Physics** Neville G. Warren, 2003 Treatise on Process Metallurgy Roderick Guthrie, Alexander McLean, Sridhar Seetharaman, H. Y. Sohn, 2024-03-12 Treatise on Process Metallurgy Volume Three Industrial Processes provides academics with the fundamentals of the manufacturing of metallic materials from raw materials into finished parts or products In these fully updated volumes coverage is expanded into four volumes including Process Fundamentals encompassing process fundamentals structure and properties of matter thermodynamic aspects of process metallurgy and rate phenomena in process metallurgy Processing Phenomena encompassing interfacial phenomena in high temperature metallurgy metallurgical process phenomena and metallurgical process technology Metallurgical Processes encompassing mineral processing aqueous processing electrochemical material and energy processes and iron and steel technology non ferrous process principles and production technologies and more The work

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 workplace in the development and the formulation of quantum mechanics in the 1920s and later became an important center  
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 nuclear physics in the 1930s with descriptions of the concurrent changes in private support for international basic science  
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