

THE



Abstract

- ### ५. मरु-संस्कृत विभाग

☞ কোলাস পানিসূত্র লবণের দ্রাব্যতা আপনাত্মা কৃষ্ণির সাথে সাথে এক পর্যায়ে কৃষ্ণি না পেয়ে হ্রাস পায়। এর কারণ, আপনাত্মা কৃষ্ণির সাথে সাথে দ্রাব্যতা কৃষ্ণি পেতে থাকলেও একটি নির্দিষ্ট আপনাত্মার কোলাস পানি দ্রুত লবণ নিষ্কৃতিত হয়। তখন দ্রাব্যতা হ্রাস পেতে থাকে। উদাহরণস্বরূপ $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ এর কথা বলা যায়। $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ এর ক্ষেত্রে পানিতে দ্রবীভূত হওয়ার সময় বিয়োজন প্রক্রিয়াটি তাপস্বরী বিক্রিয়া কিন্তু 32.4°C আপনাত্মার উপরে $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ যখন Na_2SO_4 এ পরিণত হয় তখন বিয়োজন প্রক্রিয়াটি তাপোৎপাদী হয়। এ কারণে 32.4°C আপনাত্মার উপরে আপনাত্মা কৃষ্ণিজনিত কারণে দ্রাব্যতা হ্রাস ঘটে।

w = SMV
 = $(0.5 \times 98 \times 0.25) \text{ g}$
 = 12.25 g
 অতএব, শুষ্কত H₂SO₄ এর ভর
 = 12.25 g

উদাহরণের A-পাত্রে অবস্থিত,
 H_2SO_4 এর আণবিক ভর,
 $M = 1 \times 2 + 32 + 16 \times 4$
 $= 2 + 32 + 64$
 $= 98 \text{ g/mol}$
 দ্রবণের ঘনমাত্রা,
 $S = 0.5 \text{ M}$
 দ্রবণের আয়তন,
 $V = 250 \text{ mL}$
 $= \frac{250}{1000} = 0.25 \text{ L}$

ଅବଶିଷ୍ଟ H_2SO_4 ଏବଂ ଭର, $w = 7$

ক. নোড কাকে বলে?

খ. Cl_2 অণুদ্বার— ব্যাখ্যা করো।

গ. উদ্দীপকের এলিভটির মৌল্যত্ব ঘনমাত্রা নির্ণয় করো।

ঘ. উদ্দীপকের কোন পদ্ধতি পরিবেশবান্ধব? বিশ্লেষণ করো।

२. नए व्यंजन का चिह्न

উদাহরণ ১: নিউক্লিয়াসের চারদিকে যে নির্দিষ্ট ত্রিমাত্রিক স্থানে কোন ইলেকট্রন পাওয়ার সম্ভাব্যতা শূন্য তাকে নোড বলে।

১৩। সমযোজী বন্ধনে আবদ্ধ উভয় পরমাণুর তড়িৎ ঋণাত্মকতা সম হলে অর্থাৎ তড়িৎ ঋণাত্মকতার পার্থক্য শূন্য হলে সমযোজী বন্ধন বিশুদ্ধ ও অপোলার হয়। আর তড়িৎ ঋণাত্মকতার পার্থক্য ০.৫ এর কম হলে অণুপোলার হয়। যেহেতু Cl_1 এর তড়িৎ ঋণাত্মকতা ৩.০ ও C_2 অণুতে তড়িৎ ঋণাত্মকতার পার্থক্য $(3 - 3) = 0$, তাই Cl_1 বিশুদ্ধ সমযোজী ও অপোলার যৌগ। উল্লিখিত মৌলিক অণুর ক্ষেত্রে এছাড়াও থাকে।

গ) উদ্দীপকে বর্ণিত এসিডটি হলো $2\% \left(\frac{W}{V}\right) HCl$

2% $\left(\frac{W}{V}\right)$ HCl এর অর্থ হলো—

100 mL. મુશળ HCl એનું હલ 2g

$$\therefore 1000 \text{ mL} = \left(\frac{2 \times 1000}{100} \right) \text{ g} = 20 \text{ g}$$

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