

Mathematically

$$\frac{P^0 - P^s}{P^0} = x_2$$

Here P^0 = Pressure of solvent in pure stage.

P^s = Pressure of solution

x_2 = Mole fraction of solute.

DERIVATION OF THE LAW

Pressure of solvent in solution

= Mole fraction of solvent \times pressure of solvent in pure stage

If solute is non-volatile

Total pressure of solution = Pressure due to solvent

= Mole fraction of solvent \times pressure of solvent in pure stage

So $P_{\text{solvent}} = x_1 \cdot P_{\text{solution}}$ Here x_1 is mole fraction of solvent.

$$\frac{P_{\text{solvent}}}{P_{\text{solution}}} = x_1$$

Subtract each term from 1 on both side.

$$1 - \frac{P_{\text{solvent}}}{P_{\text{solution}}} = 1 - x_1$$

$$\frac{P_{\text{solution}} - P_{\text{solvent}}}{P_{\text{solution}}} = x_2$$

2.11 IDEAL & NON-IDEAL SOLUTION

Sr.	Ideal solution	Non-Ideal solution
1.	A solution which obey Roult's law is called ideal solution.	A solution which do not obey Roult's law is called non-ideal solution.
2.	Interaction between components of mixture i.e.-between A&B is some as found in A-A & B-B molecule.	Interaction between components of mixture i.e.-between A&B is not some as found in A-A & B-B molecule.

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1. Understanding the eBook Chapter Wise Class 12 Chemistry Notes
 - The Rise of Digital Reading Chapter Wise Class 12 Chemistry Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter Wise Class 12 Chemistry Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter Wise Class 12 Chemistry Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter Wise Class 12 Chemistry Notes
 - Personalized Recommendations
 - Chapter Wise Class 12 Chemistry Notes User Reviews and Ratings
 - Chapter Wise Class 12 Chemistry Notes and Bestseller Lists
5. Accessing Chapter Wise Class 12 Chemistry Notes Free and Paid eBooks
 - Chapter Wise Class 12 Chemistry Notes Public Domain eBooks
 - Chapter Wise Class 12 Chemistry Notes eBook Subscription Services
 - Chapter Wise Class 12 Chemistry Notes Budget-Friendly Options
6. Navigating Chapter Wise Class 12 Chemistry Notes eBook Formats

- ePub, PDF, MOBI, and More
 - Chapter Wise Class 12 Chemistry Notes Compatibility with Devices
 - Chapter Wise Class 12 Chemistry Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter Wise Class 12 Chemistry Notes
 - Highlighting and Note-Taking Chapter Wise Class 12 Chemistry Notes
 - Interactive Elements Chapter Wise Class 12 Chemistry Notes
 8. Staying Engaged with Chapter Wise Class 12 Chemistry Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter Wise Class 12 Chemistry Notes
 9. Balancing eBooks and Physical Books Chapter Wise Class 12 Chemistry Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter Wise Class 12 Chemistry Notes
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Chapter Wise Class 12 Chemistry Notes
 - Setting Reading Goals Chapter Wise Class 12 Chemistry Notes
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Chapter Wise Class 12 Chemistry Notes
 - Fact-Checking eBook Content of Chapter Wise Class 12 Chemistry Notes
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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