# **SOLUTION & COLLIGATIVE PROPERTIES**

#### **OSMOTIC PRESSURE:**

- π = ρgh Where, ρ = density of soln., h = equilibrium height.
- (ii) Vont Hoff Formula (For calculation of O.P.) π = CST

$$\pi = CRT = \frac{n}{V} RT$$
 (just like ideal gas equation)

$$= \frac{(n_1 + n_2 + n_3 + \dots)}{V}$$

Note: If V, mL of C, conc. + V, mL of C, conc. are mixed.

$$\pi = \left(\frac{C_1 V_1 + C_2 V_2}{V_1 + V_2}\right) RT \quad ; \qquad \qquad \pi = \left(\frac{\pi_1 V_1 + \pi_2 V_2}{RT}\right)$$

Type of solutions:

0

(a) Isotonic solution - Two solutions having same O.P.

 $\pi_1 = \pi_2$  (at same temp.)

- (b) Hyper tonic— If  $\pi_1 > \pi_2 \Rightarrow I^{st}$  solution is hypertonic solution w.r.t.  $2^{nd}$  solution.
- (c) Hypotonic II<sup>nd</sup> solution is hypotonic w.r.t. I<sup>st</sup> solution.

Abnormal Colligative Properties : (In case of association or dissociation)
VANT HOFF CORRECTION FACTOR (i):

i = exp/observed/actual/abnormal value of colligative property

Theoritical value of colligative property

theoretical molar mass (formula mass)

- experimental/observed molar mass (apparent molar mass)
- i > 1 ⇒ dissociation.
  - $i < 1 \Rightarrow association.$

$$i = \frac{\pi_{exp.}}{\pi_{theor}}$$

$$\therefore \pi = iGRT$$

$$\pi = (i, C_1 + i_2C_2 + i_3C_3.....) RT$$

# **Solution And Colligative Properties Hsc**

**B** Lingard

#### **Solution And Colligative Properties Hsc:**

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# **Table of Contents Solution And Colligative Properties Hsc**

- 1. Understanding the eBook Solution And Colligative Properties Hsc
  - The Rise of Digital Reading Solution And Colligative Properties Hsc
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Solution And Colligative Properties Hsc
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Solution And Colligative Properties Hsc
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Solution And Colligative Properties Hsc
  - Personalized Recommendations
  - Solution And Colligative Properties Hsc User Reviews and Ratings
  - Solution And Colligative Properties Hsc and Bestseller Lists

- 5. Accessing Solution And Colligative Properties Hsc Free and Paid eBooks
  - Solution And Colligative Properties Hsc Public Domain eBooks
  - Solution And Colligative Properties Hsc eBook Subscription Services
  - Solution And Colligative Properties Hsc Budget-Friendly Options
- 6. Navigating Solution And Colligative Properties Hsc eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Solution And Colligative Properties Hsc Compatibility with Devices
  - Solution And Colligative Properties Hsc Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Solution And Colligative Properties Hsc
  - Highlighting and Note-Taking Solution And Colligative Properties Hsc
  - Interactive Elements Solution And Colligative Properties Hsc
- 8. Staying Engaged with Solution And Colligative Properties Hsc
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - $\circ\,$  Following Authors and Publishers Solution And Colligative Properties Hsc
- 9. Balancing eBooks and Physical Books Solution And Colligative Properties Hsc
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Solution And Colligative Properties Hsc
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Solution And Colligative Properties Hsc
  - Setting Reading Goals Solution And Colligative Properties Hsc
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solution And Colligative Properties Hsc
  - Fact-Checking eBook Content of Solution And Colligative Properties Hsc
  - 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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