

## 16.4

CALCULATIONS INVOLVING  
COLLIGATIVE PROPERTIES

## Section Review

## Objectives

- Calculate the molality and mole fraction of a solution
- Describe how the freezing-point depression and boiling-point elevation are related to molality

## Vocabulary

- molality ( $m$ )
- mole fraction
- molal freezing-point depression constant ( $K_f$ )
- molal boiling-point elevation constant ( $K_b$ )

## Key Equations

- Molality =  $\frac{\text{moles of solute}}{\text{kilogram of solvent}}$
- mole fractions:  $X_A = \frac{n_A}{n_A + n_B}$        $X_B = \frac{n_B}{n_A + n_B}$   
 where  $n_A$  = moles of solute  
 $n_B$  = moles of solvent
- $\Delta T_b = K_b \times m$
- $\Delta T_f = K_f \times m$

## Part A Completion

Use this completion exercise to check your understanding of the concepts and terms that are introduced in this section. Each blank can be completed with a term, short phrase, or number.

Molality is an expression of concentration involving the ratio of 1 particles to 2 particles. Molality is expressed as moles of solute per 3 of solvent.

Another expression of concentration is 4, in which concentrations are expressed as the ratio of moles of solute to the total number of moles of solvent and solute. Each solvent has a characteristic 5 elevation constant and molal freezing-point 6 constant. The elevation in boiling point of a solution can be calculated by multiplying the 7 concentration of the solution by the boiling-point 8 constant of the solvent.

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# 184 Calculations Involving Colligative Properties Answers

**Disha Experts**



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punched version Used by over 750 000 students Foundations of College Chemistry Binder Ready Version 15th Edition is praised for its accuracy clear no nonsense approach and direct writing style Foundations direct and straightforward explanations focus on problem solving making it the most dependable text on the market Its comprehensive scope proven track record outstanding in text examples and problem sets were all designed to provide instructors with a solid text while not overwhelming students in a difficult course Foundations fits into the prep intro chemistry courses which often include a wide mix of students from science majors not yet ready for general chemistry allied health students in their 1st semester of a GOB sequence science education students for elementary school teachers to the occasional liberal arts student fulfilling a science requirement Foundations was specifically designed to meet this wide array of needs **Physical Chemistry** Robert G. Mortimer,2000 Includes developments in the theories of chemical reaction kinetics and molecular quantum mechanics as well as in the experimental study of extremely rapid chemical reactions It proceeds from fundamental principles and shows how the consequences of these principles and postulates apply to the chemical and physical phenomena being studied

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Chemical Calculations Sidney William Benson,1971 Measurement Methods of measuring quantities of matter Chemical formulae Chemical reactions Energy and chemical changes The properties of gases The concept of combining power valence Measurement of solutions The physical properties of solutions Chemical equilibrium Electrolysis of ionic solutions Simple equilibria in ionic solutions The ionization of water hydrolysis Additional equilibria in ionic solutions Oxidation and reduction Predicting redox reactions Rates of chemical reactions Resources in Education ,1980 *Chemistry All-in-One For Dummies (+ Chapter Quizzes Online)* Christopher R. Hren,John T. Moore,Peter J. Mikulecky,2022-11-23 Everything you need to crush chemistry with confidence Chemistry All in One For Dummies arms you with all the no nonsense how to content you ll need to pass your chemistry class with flying colors You ll find tons of practical examples and practice problems and you ll get access to an online quiz for every chapter Reinforce the concepts you learn in the classroom and beef up your understanding of all the chemistry topics covered in the standard curriculum Prepping for the AP Chemistry exam Dummies has your back with plenty of review before test day With clear definitions concise explanations and plenty of helpful information on everything from matter and molecules to moles and measurements Chemistry All in One For Dummies is a one stop resource for chem students of all valences Review all the topics covered in a full year high school chemistry course

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and answers Instructor resources include Powerpoint slides and a full color image bank *Polyelectrolytes* Masanori Hara,1992-11-12 Aims to provide in depth coverage of recent advances in all important areas of polyelectrolyte research and applications Topics covered in this text include scaling theory dynamic light scattering neutron scattering biopolymers and ionomers [An Introduction to Aqueous Electrolyte Solutions](#) Margaret Robson Wright,2007-06-05 An Introduction to Aqueous Electrolyte Solutions is a comprehensive coverage of the subject including the development of key concepts and theory that focus on the physical rather than the mathematical aspects Important links are made between the study of electrolyte solutions and other branches of chemistry biology and biochemistry making it a useful cross reference tool for students studying this important area of electrochemistry Carefully developed throughout each chapter includes intended learning outcomes and worked problems and examples to encourage student understanding of this multidisciplinary subject a comprehensive introduction to aqueous electrolyte solutions including the development of key concepts and theories emphasises the connection between observable macroscopic experimental properties and interpretations made at the molecular level key developments in concepts and theory explained in a descriptive manner to encourage student understanding includes worked problems and examples throughout An invaluable text for students taking courses in chemistry and chemical engineering this book will also be useful for biology biochemistry and biophysics students required to study electrochemistry *Fundamentals of Chemistry: A Modern Introduction (1966)* Frank Brescia,2012-12-02 Fundamentals of Chemistry A Modern Introduction focuses on the formulas processes and methodologies used in the study of chemistry The book first looks at general and historical remarks definitions of chemical terms and the classification of matter and states of aggregation The text then discusses gases Ideal gases pressure of a gas confined by a liquid Avogadro s Law and Graham s Law are described The book also discusses aggregated states of matter atoms and molecules chemical equations and arithmetic thermochemistry and chemical periodicity The text also highlights the electronic structures of atoms Quantization of electricity spectra of elements quantization of the energy of an electron associated with nucleus the Rutherford Bohr nuclear theory hydrogen atom and representation of the shapes of atomic orbitals are explained The text also highlights the types of chemical bonds hydrocarbons and their derivatives intermolecular forces solutions and chemical equilibrium The book focuses as well on ionic solutions galvanic cells and acids and bases It also discusses the structure and basicity of hydrides and oxides The reactivity of hydrides charge of dispersal and basicity effect of anionic charge inductive effect and basicity and preparation of acids are described The book is a good source of information for readers wanting to study chemistry *Chemistry Computations and Reactions* George S. Sasin,1967

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