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Title: Colligative Properties of Solutions 1  
Colligative Properties of Solutions.  
Boiling Pt Elevation and Freezing Pt  
Depression; 2 Colligative Properties.

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depend only on the number of solute particles in a solution ; does not depend on the identity of particles; 3 Boiling Point Elevation. a nonvolatile solute lowers the vapor pressure

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Colligative Properties - Solute particles

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take up space in a solution. ... (density  
0.88 g cm<sup>-3</sup>) in the osmometer  
corrected for capillary rise is 11.6 cm at  
... | PowerPoint PPT presentation | free to  
view. Colligative Properties - PA = .848 (  
760 torr) PA = 644 torr ...

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Colligative Properties Colligative  
Property: A property that depends only  
upon the number of solute particles  
(concentration), and not upon their  
identity. Three Important Colligative  
Properties of Solutions. Vapor-pressure  
lowering Boiling-point elevation Freezing-  
point depression



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## **Chapter 16 Colligative Properties of Solutions |authorSTREAM**

1. Solutions Colligative Properties •  
Changes in colligative properties depend only on the number of solute particles present, not on the identity of the solute particles. • Among colligative properties are Vapor pressure lowering Boiling point elevation Melting point depression

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Osmotic Pressure. 2.

## **Colligative properties - LinkedIn SlideShare**

Colligative properties are those that depend on the concentration of particles in a solution, not upon the identity of those particles.

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## **PPT ON COLLIGATIVE PROPERTIES OF SOLUTIONS PDF**

- By definition a colligative property is a solution property (a property of mixtures) for which it is the amount of solute dissolved in the solvent matters

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but the kind of solute does not matter. •  
Coming to grips with this concept should  
immediately remind you of kinetic  
molecular theory of gases—in that case  
we

## **Colligative Properties- Page 1**

### **Lecture 4: Colligative ...**

COLLIGATIVE PROPERTIES Elevation of

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Boiling Point Depression of Freezing  
Point Lowering of Vapor Pressure  
Osmotic Pressure MOLE FRACTION &  
MOLALITY MOLE FRACTION OF  
Component  $i = X_i = n_i / n_{\text{total}}$  (c.f  
Gases; Chapter 5, p.217) MOLALITY =  
Moles of Solute / kg Solvent MOLALITY  
Useful when Temperature Changes are  
considered, as Volumes of solutions

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change with changing temperature,  
whereas ...

## **COLLIGATIVE PROPERTIES**

Among colligative properties are Vapor  
pressure lowering Boiling point elevation  
Melting point depression Osmotic  
pressure © 2009, Prentice-Hall, Inc.  
Vapor Pressure Because of solute-

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solvent intermolecular attraction, higher concentrations of nonvolatile solutes make it harder for solvent to escape to the vapor phase. © 2009, Prentice-Hall, Inc. Raoult's Law  $P_A = X_A P_A^\circ$  where  $X_A$  is the mole fraction of compound A, and  $P_A^\circ$  is the normal vapor pressure of A at that temperature.



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## **Chapter 13 Properties of Solutions - Colby College**

Properties of solutions that depend on the number of molecules present and not on the kind of molecules are called colligative properties. These properties include boiling point elevation, freezing point depression, and osmotic pressure.

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## **Colligative Properties - University Of Cincinnati**

Colligative Properties Of Solutions. 1.  
Colligative Properties of Solutions<br />. 2. The presence of solutes affects the  
properties of solutions.<br />Some of  
these properties are not dependant on  
what dissolved substance but only on  
how much.<br />Colligative properties

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are those that depend on the concentration of solute particles but not on their identity.<br />Colligative Properties?

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Colligative Properties of Ionic Solutions  
Colligative properties of solutions

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depends upon the total concentration of particles. Each equation describing colligative properties must be modified to account for this with ionic solutions since each ionic compound gives more than one mole of ions for every mole of compound.

## **PowerPoint Presentation**

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Osmotic pressure is the most important of the colligative properties since it is related to the physiological compatibility of parenteral, ophthalmic and nasal solutions.

## **A Lecture on Colligative Properties in an Undergraduate ...**

Colligative properties of solutions are

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properties that depend upon the concentration of solute molecules or ions, but not upon the identity of the solute. Colligative properties include vapor pressure lowering, boiling point elevation, freezing point depression, and osmotic pressure. Lowering the Vapor Pressure:

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## **Colligative Properties - Chemistry & Biochemistry**

Colligative Properties Properties of solutions (compared to the pure solvent) Depend upon the number of solute molecules or ions (concentration), but NOT upon the identity of the solute. Include freezing point depression, boiling point elevation, vapor pressure, and

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osmotic pressure. You should be able to:  
1. Define the CP 2.

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## **[DOC] Ppt On Colligative Properties Of Solutions**

Colligative Properties A. Definition  
Colligative Property • property that

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depends on the number (amount) of solute particles in the solution & not in the nature of the solute particles

Colligative Properties Vapor Pressure Lowering Boiling Point Elevation Freezing Point Depression Osmotic Pressure Vapor Pressure Lowering Vapor Pressure- pressure exerted by the vapor/gas above the liquid VP of sol'n <

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VP of solvent P =  $P_1^0 - P_1 = X_2 P_1^0$  where:  
 $P_1^0$  = V.P. of solvent  $X_2$  = mole frxn of  
...

## **colligative.ppt - Solutions I II III III Colligative ...**

Colligative Properties A dilute solution is one in which the amount of the solute is very small in comparison to the amount

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of the solvent. The dilute solutions show more or less ideal behavior as the heat and volume changes, accompanying the mixing of solute and solvent, are negligible for all practical purposes.

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