

Colligative (collective) properties are vapor pressure lowering, boiling point elevation ( $\Delta T_b$ ), freezing point depression ( $\Delta T_f$ ), and osmotic pressure ( $\Pi$ ). **Colligative properties depend only on the number of solute particles and not their chemical identity.** This is best, specifically, the properties of a pure solvent compare with those of a solution:

- The vapor pressure of the solution is lower.
- The boiling point of the solution is higher.
- The freezing (or melting) point of the solution is lower.
- The solution causes osmosis, the flow of solvent from a solution of lower solute concentration to one of higher solute concentration a semipermeable membrane.

Below are the key equations you need for solving problems related to colligative properties.

### Key Equations for Colligative Properties

Raoult's Law: Relationship between the Vapor Pressure of a Solution ( $P_{\text{solution}}$ ), the Mole Fraction of the Solvent ( $\chi_{\text{solvent}}$ ), and the Vapor Pressure of the Pure Solvent ( $P^{\circ}_{\text{solvent}}$ )

$$P_{\text{solution}} = \chi_{\text{solvent}} P^{\circ}_{\text{solvent}}$$

$$\chi_{\text{solvent}} = \frac{P_{\text{solution}}}{P^{\circ}_{\text{solvent}} + P_{\text{solute}}}$$

The Vapor Pressure of a Solution Containing Two Volatile Components

$$P_A = \chi_A P^{\circ}_A \quad P_B = \chi_B P^{\circ}_B$$

$$P_{\text{total}} = P_A + P_B$$

Relationship between Osmotic Pressure ( $\Pi$ ), Molarity ( $M$ ), the Ideal Gas Constant ( $R$ ), and Temperature ( $T$ , in K)

$$\Pi = MRT$$

$$M = \frac{n_{\text{solute}}}{V_{\text{solution}}} \quad L = 1000 \text{ mL} / \text{mol} \cdot \text{K}$$

The dependence of  $\Delta T_f$  and  $\Delta T_b$  on the Molarity ( $m$ ) and Freezing Point Depression Constant ( $K_f$ ) and Boiling Point Elevation Constant ( $K_b$ ) respectively:

$$\frac{\Delta T_f = m \cdot K_f}{\Delta T_b = m \cdot K_b} \quad m = \frac{\text{mol (solute)}}{\text{kg (solvent)}}$$

### Boiling-Point and Freezing-Point Constants

Solvent	Freezing point (°C)	$K_f$ (K·kg·mol <sup>-1</sup> )	Boiling point (°C)	$K_b$ (K·kg·mol <sup>-1</sup> )
acetone	-93.85	2.00	56.5	0.71
benzene	5.5	5.12	80.1	2.53
carbon tetrachloride	-23	29.8	76.5	4.93
cyclohexane	6.5	20.1	80.7	2.79
naphthalene	80.3	6.94	217.7	5.80
phenol	41	7.27	182	3.84
water	0	1.86	100.0	0.51

An important trait in colligative properties is, the larger the number of the nodes, the stronger the effect. For example, dissolving 2 moles of methanol (nonelectrolyte) will not affect the colligative properties of the solution as much as 2 moles of NaCl (electrolyte) would. This is because NaCl dissociates into ions, so 2 moles of NaCl will produce 4 moles of particles (ions).



Electrolytes have stronger effect on colligative properties of solutions.

Therefore, we divide our summary in two parts: colligative properties of nonelectrolytes solutions and those of electrolyte solutions.

### Nonelectrolyte Solutions

**Vapor Pressure Lowering Example:** Calculate the vapor pressure of a solution at 25°C that is made by adding 47.6 g of glucose ( $C_6H_{12}O_6$ ) to 340.0 g of water. The vapor pressure of pure water at 25°C is 23.8 torr.

The vapor pressure of the solution is calculated by the following formula:

$$P_{\text{solution}} = \chi_{\text{solvent}} P^{\circ}_{\text{solvent}}$$

We have the vapor pressure of pure water:  $P^{\circ}(\text{H}_2\text{O}) = 23.8 \text{ Torr}$ , so the only missing part is the mole fraction of the solvent (water in this case) which is the ratio of the moles of solvent over the total moles of the solvent and the solute.

Calculate the moles and plug the numbers on the equation for the mole fraction of  $\text{H}_2\text{O}$ :

$$\chi_{\text{H}_2\text{O}} = \frac{n(\text{H}_2\text{O})}{n(\text{H}_2\text{O}) + n(\text{C}_6\text{H}_{12}\text{O}_6)} = \frac{18.9 \text{ mol}}{(18.9 + 0.298) \text{ mol}} = 0.868$$

The vapor pressure of the solution would be:  $P_{\text{solution}} = 0.868 \times 23.8 \text{ torr} = 20.6 \text{ torr}$

**Freezing Point Depression Example:** Using the appropriate data in the table, determine the freezing point depression of the solution that contains 24.1 g urea ( $\text{NH}_2\text{CO}$ ) in 485 mL of water.

The freezing point depression is calculated by the following formula:  $\Delta T_f = m \cdot K_f$

So, we need to first determine the moles of urea, then calculate the molarity and use it in the equation for the  $\Delta T_f$ .

$$n(\text{NH}_2\text{CO}) = 24.1 \cancel{\text{ g}} \times \frac{1 \text{ mol}}{60.1 \cancel{\text{ g}}} = 0.401 \text{ mol}$$

$$m(\text{H}_2\text{O}) = 485 \cancel{\text{ mL}} \times \frac{1.00 \cancel{\text{ g}}}{1 \cancel{\text{ mL}}} \times \frac{1 \text{ kg}}{1000 \cancel{\text{ g}}} = 0.485 \text{ kg}$$

$$m = \frac{0.401 \text{ mol}}{0.485 \text{ kg}} = 0.827 \text{ m}$$

$$\Delta T_f = K_{fm} = 1.86 \text{ }^\circ\text{C} \cdot \text{m} \times 0.827 \text{ m} = 0.591 \text{ }^\circ\text{C}$$

# Colligative Properties Study Guide Answers

**Martha B. Barrett**



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web oct 27 2021 lecture de la lettre de saint paul apôtre aux romains 8 26 30 de la lettre de saint paul apôtre aux romains 8 26 30 frères l esprit saint vient au secours de notre faiblesse car nous ne savons pas prier comme il faut l esprit lui même intercède pour nous par des gémissements inexprimables et dieu qui scrute les cœurs

aelf lettre de saint paul apôtre aux romains chapitre 6 - Aug 03 2022

web lettre de saint paul apôtre aux romains 01 que dire alors allons nous demeurer dans le péché pour que la grâce se multiplie 02 pas du tout puisque nous sommes morts au péché comment pourrions nous vivre encore dans le péché 03 ne le savez vous pas

**lettre de saint paul aux romains la croix** - Jun 01 2022

web aug 16 2012 la lettre qu il adresse aux chrétiens de rome est l expression achevée d un génie qui au long des siècles fascinera et nourrira les esprits les plus grands saint augustin

aelf lettre de saint paul apôtre aux romains chapitre 13 - Nov 06 2022

web livre des actes des apôtres lettre de saint paul apôtre aux romains première lettre de saint paul apôtre aux corinthiens deuxième lettre de saint paul apôtre aux corinthiens lettre de saint paul apôtre aux galates lettre de saint paul apôtre aux ephésiens lettre de saint paul apôtre aux philippiens lettre de saint paul apôtre

*aelf lettre de saint paul apôtre aux romains chapitre 5* - Dec 07 2022

web lettre de saint paul apôtre aux romains 01 nous qui sommes donc devenus justes par la foi nous voici en paix avec dieu par notre seigneur jésus christ 02 lui qui nous a donné par la foi l accès à cette grâce dans laquelle nous sommes établis et nous mettons notre fierté dans l espérance d avoir part à la gloire de dieu

**aelf lettre de saint paul apôtre aux romains chapitre 7** - Oct 05 2022

web lettre de saint paul apôtre aux romains 01 ne le savez vous pas frères je parle à des gens qui s y connaissent en matière de loi la loi n a de pouvoir sur un être humain que durant sa vie 02 ainsi la femme mariée est liée par la loi à son mari s il est vivant mais si le mari est mort elle est dégagée de la loi

*contexte historique et aperçu de saint pauls lettre aux romains* - Dec 27 2021

web feb 10 2021 la lettre de paul aux romains a été au centre de controverses de conversions et de réflexions depuis les jours où elle a été écrite l accolade du plus grand théologien de l Église primitive est généralement un jeu de pile ou face

entre saint jean l Évangéliste et saint paul

**aelf lettre de saint paul apôtre aux romains chapitre 15** - Jan 08 2023

web lettre de saint paul apôtre aux romains 01 nous les forts nous devons porter la fragilité des faibles et non pas faire ce qui nous plaît 02 que chacun de nous fasse ce qui plaît à son prochain en vue du bien dans un but constructif 03 car le christ n a pas fait ce qui lui plaisait mais de lui il est écrit sur moi sont

*commentaire simple romains bibleenligne com* - Jan 28 2022

web l épître de l apôtre paul aux romains expose d une manière systématique le message fondamental du salut de dieu l évangile de dieu rom 1 1 sa position en tête de toutes les épîtres du nouveau testament est donc parfaitement justifiée  
*de la lettre de saint paul apôtre aux romains 14 7 12* - Apr 30 2022

web nov 4 2021 lecture de la lettre de saint paul apôtre aux romains 14 7 12 a a dans notre vie comme dans notre mort nous appartenons au seigneur frères aucun d entre nous ne vit pour soi même et aucun ne meurt pour soi même si nous vivons nous vivons pour le seigneur si nous mourons nous mourons pour le seigneur

[aelf lettre de saint paul apôtre aux romains chapitre 12](#) - Mar 10 2023

web lettre de saint paul apôtre aux romains 01 je vous exhorte donc frères par la tendresse de dieu à lui présenter votre corps votre personne tout entière en sacrifice vivant saint capable de plaire à dieu c est là pour

**aelf lettre de saint paul apôtre aux romains chapitre 1** - Aug 15 2023

web lettre de saint paul apôtre aux romains 01 paul serviteur du christ jésus appelé à être apôtre mis à part pour l Évangile de dieu à tous les bien aimés de dieu qui sont à rome 02 cet Évangile que dieu avait promis d avance par ses prophètes dans les saintes Écritures 03 concerne son fils qui selon la chair est né de la descendance de david

**la lettre de saint paul aux romains opus dei** - Jul 14 2023

web la lettre aux romains est la plus importante du corpus paulinien paul y expose les idées fondamentales du mystère chrétien sans être un traité de théologie il s agit d un vrai discours théologique complet et systématique qui reprend avec sérénité les thèmes de l épître aux galates les argumente et les développe

*aelf lettre de saint paul apôtre aux romains chapitre 11* - Jul 02 2022

web livre des actes des apôtres lettre de saint paul apôtre aux romains première lettre de saint paul apôtre aux corinthiens deuxième lettre de saint paul apôtre aux corinthiens lettre de saint paul apôtre aux galates lettre de saint paul apôtre aux ephésiens lettre de saint paul apôtre aux philippiens lettre de saint paul apôtre