## Colligative Properties

## Answer Key

Vocabulary: boiling point, colligative property, concentration, dissociate, freezing point, manometer, osmosis, osmotic pressure, solute, solution, solvent, vapor pressure

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

When the forecast calls for freezing rain, salt is often spread on the roads. Why is this done?

Salt is spread on the roads to prevent ice and snow from accumulating.

2. Antifreeze is added to car radiators to prevent the water in the radiators from both freezing and boiling. How do you think antifreeze affects the temperatures at which water freezes (the freezing point) and boils (the boiling point)?

Antifreeze lowers the freezing point and raises the boiling point of water.

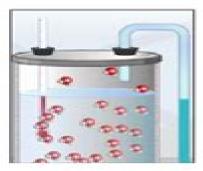
#### Gizmo Warm-up

Adding sait or other substances to water can affect the temperature at which it freezes or boils. These effects and others, known as **colligative properties**, are explored in the Colligative Properties Gizmo.

Check that No solute is selected and the Air temp, is 25 °C.

Describe the motion of the water molecules in the beaker.

The water molecules move randomly in the container, When water molecules collide, they bounce off of one another like rubber balls.



Change the Air temp. to -10 °C. What do you see as the water freezes?

As molecules freeze from the surface down, they stop moving freely and begin to vibrate in place.

Now change the Air temp. to 110 °C. What do you see as the water boils?

The molecules move more rapidly and bubbles appear in the beaker. The water disappears from the U-shaped tube that is attached to the beaker.



# **Answer Key 18 3 Colligative**

**Oswaal Editorial Board** 

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## **Table of Contents Answer Key 18 3 Colligative**

- 1. Understanding the eBook Answer Key 18 3 Colligative
  - The Rise of Digital Reading Answer Key 18 3 Colligative
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Answer Key 18 3 Colligative
  - 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 Answer Key 18 3 Colligative
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Answer Key 18 3 Colligative
  - Personalized Recommendations
  - Answer Key 18 3 Colligative User Reviews and Ratings
  - Answer Key 18 3 Colligative and Bestseller Lists

- 5. Accessing Answer Key 18 3 Colligative Free and Paid eBooks
  - Answer Key 18 3 Colligative Public Domain eBooks
  - Answer Key 18 3 Colligative eBook Subscription Services
  - Answer Key 18 3 Colligative Budget-Friendly Options
- 6. Navigating Answer Key 18 3 Colligative eBook Formats
  - o ePub, PDF, MOBI, and More
  - Answer Key 18 3 Colligative Compatibility with Devices
  - Answer Key 18 3 Colligative Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Answer Key 18 3 Colligative
  - Highlighting and Note-Taking Answer Key 18 3 Colligative
  - Interactive Elements Answer Key 18 3 Colligative
- 8. Staying Engaged with Answer Key 18 3 Colligative
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Answer Key 18 3 Colligative
- 9. Balancing eBooks and Physical Books Answer Key 18 3 Colligative
  - Benefits of a Digital Library
  - $\circ\,$  Creating a Diverse Reading Collection Answer Key 18 3 Colligative
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Answer Key 18 3 Colligative
  - Setting Reading Goals Answer Key 18 3 Colligative
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answer Key 18 3 Colligative
  - Fact-Checking eBook Content of Answer Key 18 3 Colligative
  - 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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