

26 saturated and unsaturated solutions

pogil key

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26 Saturated and Unsaturated Solutions POGIL Key

Paragraph 1: Questions and Answers on Solution Concentration

- **Question:** What is the difference between a saturated and an unsaturated solution?
- **Answer:** A saturated solution is a solution that contains the maximum amount of solute that can dissolve in the solvent at a given temperature. An unsaturated solution contains less than the maximum amount of solute that can dissolve.
- **Question:** What is the effect of temperature on the solubility of a solute?
- **Answer:** The solubility of most solutes increases with increasing temperature.

Paragraph 2: Questions and Answers on Saturated Solutions

- **Question:** How can you tell if a solution is saturated?
- **Answer:** If adding more solute to the solution does not cause any more solute to dissolve, the solution is saturated.
- **Question:** What happens when you add more solute to a saturated solution?
- **Answer:** The excess solute will precipitate out of solution.

Paragraph 3: Questions and Answers on Unsaturated Solutions

- **Question:** What is the effect of adding more solute to an unsaturated solution?
- **Answer:** Adding more solute to an unsaturated solution will cause more solute to dissolve until the solution becomes saturated.
- **Question:** What is the effect of changing the temperature of an unsaturated solution?
- **Answer:** Changing the temperature of an unsaturated solution will change the solubility of the solute. This will cause the solution to become either more or less saturated.

Paragraph 4: Questions and Answers on Factors Affecting Solubility

- **Question:** What factors besides temperature affect the solubility of a solute?
- **Answer:** The nature of the solute and the solvent, as well as the presence of other solutes, can affect the solubility of a solute.
- **Question:** How can you increase the solubility of a solute?
- **Answer:** You can increase the solubility of a solute by increasing the temperature, stirring the solution, or adding a different solvent that is a better solvent for the solute.

Paragraph 5: Questions and Answers on Applications of Saturated and Unsaturated Solutions

- **Question:** What are some applications of saturated and unsaturated solutions?
- **Answer:** Saturated solutions are used in a variety of applications, such as electroplating, photography, and crystallization. Unsaturated solutions are used in many industrial processes, such as food processing and medicine.
- **Question:** Why is it important to understand the concept of saturated and unsaturated solutions?
- **Answer:** Understanding the concept of saturated and unsaturated solutions is important for a variety of reasons, including predicting the behavior of

solutions, designing experiments, and troubleshooting problems.

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