SOLUTIONS, CONCENTRATION, AND SOLUBILITY - PRACTICE TEST | NEW BRUNSWICK CHEMISTRY 111-112 · UNIT D · 10 QUESTIONS

Solutions, Concentration, and Solubility, 10-question test — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1

A solution contains 15 grams of solute in 300 grams of solution. Its percent by mass is

Question 1

A solution contains 8 moles of solute in 4 litres. Its concentration, in moles per litre, is

ANSWER

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2

A solution contains 25 grams of solute in 250 grams of solution. Its percent by mass is

Question 2

In salt water, the solute is

A) water

B) air

C) the container

D) salt

ANSWER

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3

The graph shows solubility against temperature. Solubility in this graph

Question 3

In salt water, the solvent is

A) water

B) salt

C) air

D) the container

A decreases as temperature increases

B increases as temperature increases

C stays constant

D falls to zero at 80 degrees C

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4 Concentration is the amount of solute per

Question 4

Increasing temperature usually decreases the solubility of a

A) solid in water

B) salt in water

C) sugar in water

D) gas in water

A mass of solvent only

B volume of solution

C temperature

D pressure only

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5 Diluting a solution

Question 5

Increasing temperature usually increases the solubility of a

A) gas in water

B) solid in air

C) solid in water

D) liquid in air only

- **A** raises its concentration
- **B** changes the solute
- **C** lowers its concentration
- **D** removes the solvent

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6 An unsaturated solution can still dissolve

Question 6

Stirring a mixture helps a solid dissolve

A) faster

B) slower

C) not at all

D) only in cold water

A no more solute

B only solvent

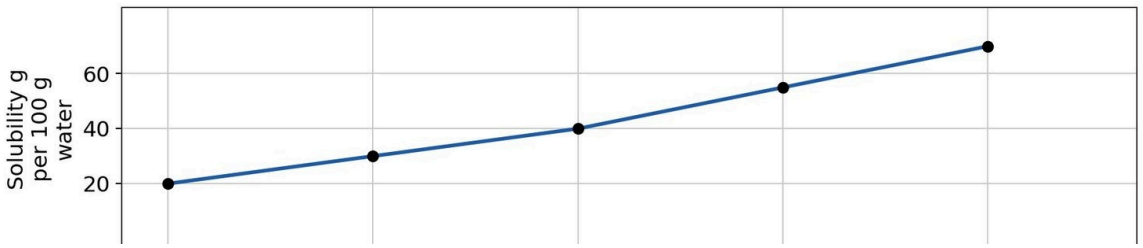
C only gas

D more solute

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7 **A supersaturated solution contains**



A more solute than a saturated solution

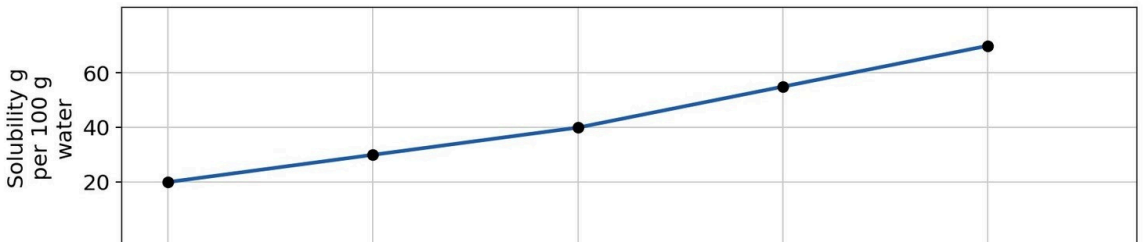
B less solute than a saturated solution

C no solute

D only solvent

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8 **A solution contains 12 moles of solute in 4 litres. Its concentration, in moles per litre, is**



ANSWER

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9

A solution contains 10 moles of solute in 5 litres. Its concentration, in moles per litre, is

Question 9

A solution contains 12 moles of solute in 4 litres. Its concentration, in moles per litre, is

ANSWER

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10

A solution contains 50 grams of solute in 500 grams of solution. Its percent by mass is

Question 10

A solution contains 10 moles of solute in 5 litres. Its concentration, in moles per litre, is

ANSWER

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ANSWER KEY

1. 5
2. 10
3. B
4. B
5. C
6. D
7. A
8. 3
9. 2
10. 10

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