

1. Which of the following solutions of H_2SO_4 is more concentrated?
- A. 1 Molar solution B. 1 molal solution
C. 1 normal solution D. all have same concentration

Answer: Option A

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2. Which of the following unit of concentration is independent of temperature?
- A. Molarity B. Molality
C. Mole fraction D. all

Answer: Option B

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3. Which of the following is an example of liquid in gas solution.
- A. Opals B. Dust particles in smoke
C. Paints D. Fog

Answer: Option D

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4. The molal boiling point constant is the ratio of the elevation of boiling point to
- A. Molarity B. Molality
C. More fraction of solvent D. Mole fraction of solute

Answer: Option B

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5. Which of the following are the conditions of colligative properties
- A. Non-electrolyte solute B. Non-volatile solute
C. Dilute solution D. All of the above

Answer: Option D

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6. Which has the minimum freezing point?
- A. One Molal NaCl B. One molal KCl solution
C. One molal CaCl₂ D. One molal urea solution

Answer: Option C

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7. Which of the following is not a colligative property?
- A. Lowering of vapour pressure B. Freezing point
C. Osmotic pressure D. Elevation of boiling point

Answer: Option B

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8. Which of the following substance do not show continuous solubility curve?
- A. KCIO₄ B. Na₂SO₄. 10H₂O
C. K₂Cr₂O₇ D. PbCl₂

Answer: Option B

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9. When common salt is dissolved in water?
- A. Boiling point of water decrease B. Boiling point of water increase
C. Boiling point of water remains same D. None of the above

Answer: Option B

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10. Every sample of matter with uniform properties and fixed composition is called

- A. solute
- B. solvent
- C. solution
- D. phase

Answer: Option D