

1. As a solute is added to a solvent, what happens to the freezing point and the boiling point of the solution?
- ☒ A) The freezing point decreases and the boiling point increases.
- B) The freezing point increases and the boiling point increases.
- C) The freezing point increases and the boiling point decreases.
- D) The freezing point decreases and the boiling point decreases.
2. Compared to the freezing point of 1.0 M KCl(aq) at standard pressure, the freezing point of 1.0 M CaCl₂(aq) at standard pressure is
- More ions* ☒ A) lower
- B) higher
- C) the same
3. Which aqueous solution of KI freezes at the lowest temperature?
- A) 1 mol of KI in 500. g of water
- ☒ B) 2 mol of KI in 500. g of water *(more concentrated)*
- C) 1 mol of KI in 1000. g of water
- D) 2 mol of KI in 1000. g of water
4. A 1 kilogram sample of water will have the highest freezing point when it contains
- A) 1×10^{21} dissolved particles
- ☒ B) 1×10^{17} dissolved particles
- C) 1×10^{19} dissolved particles
- D) 1×10^{23} dissolved particles *lowest f.p.*
5. A solution consists of 0.50 mole of CaCl₂ dissolved in 100. grams of H₂O at 25°C. Compared to the boiling point and freezing point of 100. grams of H₂O at standard pressure, the solution at standard pressure has
- ☒ A) a higher boiling point and a lower freezing point
- B) a lower boiling point and a lower freezing point
- C) a higher boiling point and a higher freezing point
- D) a lower boiling point and a higher freezing point
6. Which solution will freeze at the lowest temperature?
- A) 1 mole of sugar in 500 g of water
- B) 1 mole of sugar in 1,000 g of water
- C) 2 moles of sugar in 1,000 g of water
- ☒ D) 2 moles of sugar in 500 g of water
7. Which solution has the highest boiling point at standard pressure?
- 4 ions* ☒ A) 0.10 M K₃PO₄(aq) *3 K⁺ 3 PO₄⁻*
- B) 0.10 M KCl(aq)
- C) 0.10 M KNO₃(aq)
- D) 0.10 M K₂SO₄(aq)
8. Which concentration of a solution of CH₃OH in water has the lowest freezing point?
- A) 0.001 M
- ☒ B) 0.1 M
- C) 0.01 M
- D) 0.0001 M
9. How do the boiling point and freezing point of a solution of water and calcium chloride at standard pressure compare to the boiling point and freezing point of water at standard pressure?
- A) Both the freezing point and boiling point of the solution are higher.
- B) The freezing point of the solution is higher and the boiling point of the solution is lower.
- ☒ C) The freezing point of the solution is lower and the boiling point of the solution is higher.
- D) Both the freezing point and boiling point of the solution are lower.
10. Compared to a 2.0 M aqueous solution of NaCl at 1 atmosphere, a 3.0 M aqueous solution of NaCl at 1 atmosphere has a
- A) lower boiling point and a higher freezing point
- B) higher boiling point and a higher freezing point
- C) lower boiling point and a lower freezing point
- ☒ D) higher boiling point and a lower freezing point

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John Kaisermann



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