

14.3

HYDROGEN IONS AND ACIDITY

Section Review

Objectives

1. Calculate concentrations based on the pH of a given acid or hydrogen ion concentration.
2. Calculate hydrogen ion concentrations from pH and pOH , and vice versa from pH and pOH .
3. Calculate the pH of a weak acid.

Vocabulary

- | | | |
|-------------------|-------------------------------|------------------|
| 1. autoionization | 2. hydrogen ion concentration | 3. acid solution |
| 4. autoionization | 5. pH | 6. pOH |

Key Equation

- | | |
|------------------------------------|----------------------------------|
| 1. $\text{pH} = -\log[\text{H}^+]$ | 2. $\text{pH} = 14 - \text{pOH}$ |
| 3. $\text{pH} = -\log[\text{H}^+]$ | 4. $\text{pH} = 14 - \text{pOH}$ |

Part A Completion

Write the hydrogen ion concentration or autoionization constant, if the missing quantity that is indicated in the problem. Express answers in scientific notation when appropriate.

1. What substance has $[\text{H}^+] = 1.0 \times 10^{-7}$ moles/liter hydrogen ion?
2. Autoionization constant $K_w = 1.0 \times 10^{-14}$ at 25°C . What is the concentration of H^+ ions in pure water at 25°C ?
3. Autoionization constant $K_w = 1.0 \times 10^{-14}$ at 25°C . What is the concentration of OH^- ions in pure water at 25°C ?
4. Autoionization constant $K_w = 1.0 \times 10^{-14}$ at 25°C . What is the concentration of H^+ ions in pure water at 25°C ?
5. Autoionization constant $K_w = 1.0 \times 10^{-14}$ at 25°C . What is the concentration of OH^- ions in pure water at 25°C ?
6. Autoionization constant $K_w = 1.0 \times 10^{-14}$ at 25°C . What is the concentration of H^+ ions in pure water at 25°C ?
7. Autoionization constant $K_w = 1.0 \times 10^{-14}$ at 25°C . What is the concentration of OH^- ions in pure water at 25°C ?

8. $\text{pH} = 7.0$
9. $\text{pH} = 1.0$
10. $\text{pH} = 14.0$
11. $\text{pH} = 1.0$
12. $\text{pH} = 14.0$
13. $\text{pH} = 1.0$
14. $\text{pH} = 14.0$
15. $\text{pH} = 1.0$
16. $\text{pH} = 14.0$
17. $\text{pH} = 1.0$
18. $\text{pH} = 14.0$

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Eric Strauss, Marylin Lisowski



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