

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. $\text{pH} = \text{pOH} + \text{pK}_a$ |

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

8. $\text{pH} = 1$
9. $\text{pH} = 2$
10. $\text{pH} = 3$
11. $\text{pH} = 4$
12. $\text{pH} = 5$
13. $\text{pH} = 6$
14. $\text{pH} = 7$
15. $\text{pH} = 8$
16. $\text{pH} = 9$
17. $\text{pH} = 10$
18. $\text{pH} = 11$
19. $\text{pH} = 12$
20. $\text{pH} = 13$
21. $\text{pH} = 14$

19 2 Hydrogen Ions And Acidity Worksheet Answers

**La Motte Chemical Products
Company, William Anthony Taylor**



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The Top Books of the Year 19 2 Hydrogen Ions And Acidity Worksheet Answers The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read :

Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail.

19 2 Hydrogen Ions And Acidity Worksheet Answers : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

19 2 Hydrogen Ions And Acidity Worksheet Answers : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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millions of people like ballard were entranced by the ship like an invisible hand reaching up from the bottom of the sea the titanic held tight to hearts and imaginations

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