

19.2

HYDROGEN IONS AND ACIDITY

Section Review

Objectives

1. Identify a conjugate acid-base pair in chemical reactions involving acids and bases.
2. Calculate the pH of a solution from the concentration of H^+ or H_3O^+ ions, and vice versa.
3. Determine the pH of a solution from K_a and K_b .

Vocabulary

acid	1. conjugate base	acid solution
acid-base indicator	2. hydronium	acidic solution
acidic solution	3. autoionization	pH

Key Equation

- a. $pH = -\log[H^+]$ (ppm 1.4.1 and 1.4.2)
- b. $[H^+] = 10^{-pH}$ (ppm 1.4.1 and 1.4.2)

Part A Completion

Write the answers to the following questions in the spaces provided. Show necessary calculations and units. Indicate whether the answer is greater or less than, smaller than, or equal to.

1. Acetic acid has a K_a of 1.8×10^{-5} . What is the pH of a 0.10 M solution of acetic acid? a. 2.9
2. The pH of a 0.10 M solution of acetic acid is 2.9. What is the K_a of acetic acid? b. 1.8×10^{-5}
3. The pH of a 0.10 M solution of acetic acid is 2.9. What is the K_b of acetate ion? c. 5.6×10^{-10}
4. The pH of a 0.10 M solution of acetic acid is 2.9. What is the K_a of acetic acid? d. 2.9
5. The pH of a 0.10 M solution of acetic acid is 2.9. What is the K_b of acetate ion? e. 2.9
6. The pH of a 0.10 M solution of acetic acid is 2.9. What is the K_a of acetic acid? f. 2.9
7. The pH of a 0.10 M solution of acetic acid is 2.9. What is the K_b of acetate ion? g. 2.9
8. The pH of a 0.10 M solution of acetic acid is 2.9. What is the K_a of acetic acid? h. 2.9
9. The pH of a 0.10 M solution of acetic acid is 2.9. What is the K_b of acetate ion? i. 2.9
10. The pH of a 0.10 M solution of acetic acid is 2.9. What is the K_a of acetic acid? j. 2.9
11. The pH of a 0.10 M solution of acetic acid is 2.9. What is the K_b of acetate ion? k. 2.9
12. The pH of a 0.10 M solution of acetic acid is 2.9. What is the K_a of acetic acid? l. 2.9
13. The pH of a 0.10 M solution of acetic acid is 2.9. What is the K_b of acetate ion? m. 2.9
14. The pH of a 0.10 M solution of acetic acid is 2.9. What is the K_a of acetic acid? n. 2.9
15. The pH of a 0.10 M solution of acetic acid is 2.9. What is the K_b of acetate ion? o. 2.9
16. The pH of a 0.10 M solution of acetic acid is 2.9. What is the K_a of acetic acid? p. 2.9
17. The pH of a 0.10 M solution of acetic acid is 2.9. What is the K_b of acetate ion? q. 2.9
18. The pH of a 0.10 M solution of acetic acid is 2.9. What is the K_a of acetic acid? r. 2.9
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Hydrogen Ions And Acidity Section Review Answers

Guillaume Favre



Hydrogen Ions And Acidity Section Review Answers:

Decoding **Hydrogen Ions And Acidity Section Review Answers**: Revealing the Captivating Potential of Verbal Expression

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