

19.2

HYDROGEN IONS AND ACIDITY

Section Review

Objectives

1. Calculate K_a and K_b for weak acids and bases, and calculate pK_a and pK_b for weak acids and bases.
2. Calculate K_a and K_b for weak acids and bases, and calculate pK_a and pK_b for weak acids and bases.
3. Calculate the pH of weak acid and base solutions.

Vocabulary

- | | | |
|-----------------|--------------------------------------|------------------------------------|
| acid | acid dissociation constant (K_a) | acid ionization constant (K_a) |
| acidic solution | acidic solution | acidic solution |
| acidic solution | acidic solution | acidic solution |

Key Equations

- | | |
|---|--|
| $K_a = \frac{[H^+][A^-]}{[HA]}$ (Equation 19.1) | $K_b = \frac{[OH^-][HB^+]}{[B]}$ (Equation 19.2) |
|---|--|

Part A Completion

Write the chemical formula for each of the following acids, bases, and salts, showing the correct number of atoms of each element in the formula.

1. Acetic acid, CH_3COOH
2. Hydrofluoric acid, HF
3. Hydrochloric acid, HCl
4. Hydrobromic acid, HBr
5. Hydroiodic acid, HI
6. Nitric acid, HNO_3
7. Sulfuric acid, H_2SO_4
8. Phosphoric acid, H_3PO_4
9. Acetic acid, CH_3COOH
10. Hydrofluoric acid, HF
11. Hydrochloric acid, HCl
12. Hydrobromic acid, HBr
13. Hydroiodic acid, HI
14. Nitric acid, HNO_3
15. Sulfuric acid, H_2SO_4
16. Phosphoric acid, H_3PO_4
17. Acetic acid, CH_3COOH

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12. Hydrobromic acid, HBr
13. Hydroiodic acid, HI
14. Nitric acid, HNO_3
15. Sulfuric acid, H_2SO_4
16. Phosphoric acid, H_3PO_4
17. Acetic acid, CH_3COOH

19 2 Hydrogen Ions And Acidity Section Review Answers

**Kevin T. Patton, Gary A.
Thibodeau, Andrew Hutton**



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Fundamentals of Sustainable Chemical Science Stanley E. Manahan, 2009-03-10 Written by Stanley Manahan
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Foundations of College Chemistry Morris Hein, Susan Arena, Cary Willard, 2016-08-02 This text is an unbound three hole punched version Used by over 750 000 students Foundations of College Chemistry Binder Ready Version 15th Edition is praised for its accuracy clear no nonsense approach and direct writing style Foundations direct and straightforward explanations focus on problem solving making it the most dependable text on the market Its comprehensive scope proven track record outstanding in text examples and problem sets were all designed to provide instructors with a solid text while not overwhelming students in a difficult course Foundations fits into the prep intro chemistry courses which often include a wide mix of students from science majors not yet ready for general chemistry allied health students in their 1st semester of a GOB sequence science education students for elementary school teachers to the occasional liberal arts student fulfilling a science requirement Foundations was specifically designed to meet this wide array of needs

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