

19.2

HYDROGEN IONS AND ACIDITY

Section Review

Objectives

1. Calculate K_a and K_b for weak acids and bases, and vice versa for weak acids and bases.
2. Calculate K_a and K_b for weak acids and bases, and vice versa for weak acids and bases.
3. Calculate the pH of weak acids and bases.

Vocabulary

- | | | |
|-----------------|--------------------------------------|-----------------|
| acid | acid dissociation constant (K_a) | acid ionization |
| 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. Also, write the chemical formula for each of the following acids, bases, and salts.

1. Hydrochloric acid, HCl , (Equation 19.1)
2. Acetic acid, CH_3COOH , (Equation 19.1)
3. Nitric acid, HNO_3 , (Equation 19.1)
4. Sulfuric acid, H_2SO_4 , (Equation 19.1)
5. Phosphoric acid, H_3PO_4 , (Equation 19.1)
6. Hydrofluoric acid, HF , (Equation 19.1)
7. Hydrobromic acid, HBr , (Equation 19.1)
8. Hydroiodic acid, HI , (Equation 19.1)
9. Hydrocyanic acid, HCN , (Equation 19.1)
10. Hydroperchloric acid, $HClO_4$, (Equation 19.1)
11. Hydroperbromic acid, $HBrO_4$, (Equation 19.1)
12. Hydroperiodic acid, $HI O_4$, (Equation 19.1)
13. Hydroperacetic acid, CH_3COOOH , (Equation 19.1)
14. Hydroperphosphoric acid, H_3PO_4 , (Equation 19.1)
15. Hydroperphosphoric acid, H_3PO_4 , (Equation 19.1)

1. Hydrochloric acid, HCl , (Equation 19.1)
2. Acetic acid, CH_3COOH , (Equation 19.1)
3. Nitric acid, HNO_3 , (Equation 19.1)
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6. Hydrofluoric acid, HF , (Equation 19.1)
7. Hydrobromic acid, HBr , (Equation 19.1)
8. Hydroiodic acid, HI , (Equation 19.1)
9. Hydrocyanic acid, HCN , (Equation 19.1)
10. Hydroperchloric acid, $HClO_4$, (Equation 19.1)
11. Hydroperbromic acid, $HBrO_4$, (Equation 19.1)
12. Hydroperiodic acid, $HI O_4$, (Equation 19.1)
13. Hydroperacetic acid, CH_3COOOH , (Equation 19.1)
14. Hydroperphosphoric acid, H_3PO_4 , (Equation 19.1)
15. Hydroperphosphoric acid, H_3PO_4 , (Equation 19.1)

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Stanley E. Manahan,2009-03-10 Written by Stanley Manahan Fundamentals of Sustainable Chemical Science has been carefully designed to provide a basic introduction to chemistry including organic chemistry and biochemistry for readers with little or no prior background in the subject Manahan bestselling author of many environmental texts presents the material in a practical E3 Chemistry Review Book - 2018 Home Edition (Answer Key Included) Effiong Eyo,2017-10-20 With Answer

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The Human Body in Health & Disease - Softcover6 Kevin T. Patton, Gary A. Thibodeau, 2013-01-01 Rev ed of The human body in health disease Gary A Thibodeau Kevin T Patton 5th ed c2010 **Review Guide for RN**

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