

14.1

HYDROGEN IONS AND ACIDITY

Section Overview

Objectives

1. Identify conjugate acid-base pairs of ions, acids, or hydroxides and of aqueous concentrations.
2. Calculate hydroxide and hydronium ion concentrations and pH values and vice versa from [OH⁻] and [H⁺].
3. Calculate the pH of weak (or strong) acids.

Vocabulary

- | | | |
|-------------------|---|-------------------|
| 1. autoionization | 2. conjugate acid-base pair | 3. acid solution |
| 4. hydroxide ion | 5. hydronium ion (H ₃ O ⁺) | 6. autoionization |
| | 7. acid solution | 8. pH |

Key Equations

- | | |
|---|---------------------------------|
| 1. $[H^+][OH^-] = 1.0 \times 10^{-14}$ (Eq. 14.1) | 2. $pH = -\log[H^+]$ (Eq. 14.2) |
| 3. $pH = -\log[H^+]$ (Eq. 14.3) | 4. $pH = -\log[H^+]$ (Eq. 14.4) |

Part A: Completion

Use the appropriate number to identify the relationship of the conjugate acid-base pair represented in the reaction. Also indicate which member of the pair is the stronger acid.

1. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$ (strong acid/strong base)
2. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$ (strong acid/weak base)
3. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$ (strong acid/strong base)
4. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$ (strong acid/strong base)
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9. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$ (strong acid/strong base)
10. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$ (strong acid/strong base)

11. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

12. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

13. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

14. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

15. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

16. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

17. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

18. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

19. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

20. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

21. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

22. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

19 2 Hydrogen Ions And Acidity Answer Key

Michael Rajnik



19 2 Hydrogen Ions And Acidity Answer Key:

19 2 Hydrogen Ions And Acidity Answer Key Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**19 2 Hydrogen Ions And Acidity Answer Key**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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