

14.3

HYDROGEN IONS AND ACIDITY

Section Review

Objectives

1. Calculate concentrations based on the pH of acids and bases and vice versa.
2. Calculate pH and concentrations based on the K_a and K_b of acids and bases and vice versa.
3. Calculate the pH of weak acids and bases.

Vocabulary

- | | | |
|------------------------|-----------------------------|-------------------|
| 1. autoionization | 2. conjugate acid-base pair | 3. weak acid/base |
| 4. ionization | 5. K_a | 6. K_b |
| 7. ionization constant | 8. pH | |

Key Equation

- | | |
|-----------------------|-----------------------|
| 1. $[H^+] = 10^{-pH}$ | 2. $pH = -\log [H^+]$ |
| 3. $pH = -\log [H^+]$ | 4. $[H^+] = 10^{-pH}$ |

Part A Completion

Write the equation and/or the numerical value(s) of the K_a and K_b for the acids and bases listed in the table. Also indicate which ionization constant is the stronger one.

1. HNO_3 is a strong acid. K_a is very large.
2. HCl is a strong acid. K_a is very large.
3. H_2SO_4 is a strong acid. K_a is very large.
4. H_2SO_4 is a strong acid. K_a is very large.
5. H_2SO_4 is a strong acid. K_a is very large.
6. H_2SO_4 is a strong acid. K_a is very large.
7. H_2SO_4 is a strong acid. K_a is very large.
8. H_2SO_4 is a strong acid. K_a is very large.
9. H_2SO_4 is a strong acid. K_a is very large.
10. H_2SO_4 is a strong acid. K_a is very large.
11. H_2SO_4 is a strong acid. K_a is very large.
12. H_2SO_4 is a strong acid. K_a is very large.
13. H_2SO_4 is a strong acid. K_a is very large.
14. H_2SO_4 is a strong acid. K_a is very large.
15. H_2SO_4 is a strong acid. K_a is very large.
16. H_2SO_4 is a strong acid. K_a is very large.
17. H_2SO_4 is a strong acid. K_a is very large.
18. H_2SO_4 is a strong acid. K_a is very large.
19. H_2SO_4 is a strong acid. K_a is very large.
20. H_2SO_4 is a strong acid. K_a is very large.

1.	HNO_3
2.	HCl
3.	H_2SO_4
4.	H_2SO_4
5.	H_2SO_4
6.	H_2SO_4
7.	H_2SO_4
8.	H_2SO_4
9.	H_2SO_4
10.	H_2SO_4
11.	H_2SO_4
12.	H_2SO_4
13.	H_2SO_4
14.	H_2SO_4
15.	H_2SO_4
16.	H_2SO_4
17.	H_2SO_4
18.	H_2SO_4
19.	H_2SO_4
20.	H_2SO_4

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