

19.2

HYDROGEN IONS AND ACIDITY

Section Review

Objectives

1. Calculate K_a and K_b for weak acids and bases, and vice versa, from K_w and K_a or K_b for conjugate acid-base pairs.
2. Calculate the pH of weak acid and weak base solutions.

Vocabulary

- acid dissociation constant
- base dissociation constant

- conjugate acid-base pair
- hydrolysis
- indicator

- neutralization
- polyprotic acid
- titration

Key Equations

$$K_a = \frac{[\text{H}^+][\text{A}^-]}{[\text{HA}]}$$

(see Table 19.2)

$$K_b = \frac{[\text{B}][\text{OH}^-]}{[\text{BOH}]}$$

(see Table 19.2)

Part A Completion

Use the appropriate words to identify each compound, acid, base, and salt showing dissociation. Write the formulas with charges where appropriate. Write down the name of the salt.

1. H_2SO_4 (strong acid)
2. NaOH (strong base)
3. H_2CO_3 (weak acid)
4. NH_3 (weak base)
5. Na_2CO_3 (salt)
6. H_2PO_4^- (weak acid)
7. HPO_4^{2-} (weak base)
8. H_2O (neutral)
9. H_2S (weak acid)
10. HS^- (weak base)
11. H_2SO_4 (strong acid)
12. NaHSO_4 (salt)
13. Na_2SO_4 (salt)
14. H_2SO_4 (strong acid)
15. HSO_4^- (weak acid)
16. SO_4^{2-} (weak base)
17. H_2SO_4 (strong acid)
18. HSO_4^- (weak acid)
19. SO_4^{2-} (weak base)
20. H_2SO_4 (strong acid)
21. HSO_4^- (weak acid)
22. SO_4^{2-} (weak base)

23. H_2SO_4 (strong acid)
24. HSO_4^- (weak acid)
25. SO_4^{2-} (weak base)
26. H_2SO_4 (strong acid)
27. HSO_4^- (weak acid)
28. SO_4^{2-} (weak base)
29. H_2SO_4 (strong acid)
30. HSO_4^- (weak acid)
31. SO_4^{2-} (weak base)
32. H_2SO_4 (strong acid)
33. HSO_4^- (weak acid)
34. SO_4^{2-} (weak base)
35. H_2SO_4 (strong acid)
36. HSO_4^- (weak acid)
37. SO_4^{2-} (weak base)
38. H_2SO_4 (strong acid)
39. HSO_4^- (weak acid)
40. SO_4^{2-} (weak base)
41. H_2SO_4 (strong acid)
42. HSO_4^- (weak acid)
43. SO_4^{2-} (weak base)

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