

19.2

HYDROGEN IONS AND ACIDITY

Section Review

Objectives

1. Identify a conjugate acid-base pair in chemical reactions involving acids and bases.
2. Calculate the pH of a solution from the concentration of H^+ or OH^- ions, and vice versa.
3. Determine the pH of a solution from K_a or K_b .

Vocabulary

acid	1. conjugate base	acid ionization
base	2. pH	acid ionization constant
base ionization	3. K_a	base ionization
base ionization constant	4. K_b	

Key Equation

1. $\text{pH} = -\log[\text{H}^+]$ (Equation 19.2)
2. $\text{pH} = 14 - \text{pOH}$ (Equation 19.3)
3. $\text{pH} = -\log[\text{H}^+]$ (Equation 19.4)
4. $\text{pH} = 14 - \text{pOH}$ (Equation 19.5)

Part A Completion

Write the chemical formula or identify the substance in each space. Write the name of the substance in each space. Write the chemical formula or identify the substance in each space.

1. The chemical formula of the acid that is the conjugate acid of OH^- is _____.
2. The chemical formula of the base that is the conjugate base of H^+ is _____.
3. The chemical formula of the acid that is the conjugate acid of OH^- is _____.
4. The chemical formula of the base that is the conjugate base of H^+ is _____.
5. The chemical formula of the acid that is the conjugate acid of OH^- is _____.
6. The chemical formula of the base that is the conjugate base of H^+ is _____.
7. The chemical formula of the acid that is the conjugate acid of OH^- is _____.
8. The chemical formula of the base that is the conjugate base of H^+ is _____.
9. The chemical formula of the acid that is the conjugate acid of OH^- is _____.
10. The chemical formula of the base that is the conjugate base of H^+ is _____.
11. The chemical formula of the acid that is the conjugate acid of OH^- is _____.
12. The chemical formula of the base that is the conjugate base of H^+ is _____.
13. The chemical formula of the acid that is the conjugate acid of OH^- is _____.
14. The chemical formula of the base that is the conjugate base of H^+ is _____.
15. The chemical formula of the acid that is the conjugate acid of OH^- is _____.
16. The chemical formula of the base that is the conjugate base of H^+ is _____.
17. The chemical formula of the acid that is the conjugate acid of OH^- is _____.
18. The chemical formula of the base that is the conjugate base of H^+ is _____.
19. The chemical formula of the acid that is the conjugate acid of OH^- is _____.
20. The chemical formula of the base that is the conjugate base of H^+ is _____.

Hydrogen Ions And Acidity Section Review Answers

Yi-Tong Ma



Hydrogen Ions And Acidity Section Review Answers:

Adopting the Tune of Appearance: An Mental Symphony within **Hydrogen Ions And Acidity Section Review Answers**

In a global consumed by displays and the ceaseless chatter of fast transmission, the melodic elegance and psychological symphony produced by the written word frequently disappear in to the back ground, eclipsed by the persistent sound and interruptions that permeate our lives. Nevertheless, located within the pages of **Hydrogen Ions And Acidity Section Review Answers** a stunning literary prize overflowing with raw thoughts, lies an immersive symphony waiting to be embraced. Crafted by a wonderful composer of language, that interesting masterpiece conducts readers on a mental trip, well unraveling the hidden songs and profound affect resonating within each carefully constructed phrase. Within the depths of this moving examination, we shall examine the book is main harmonies, analyze their enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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