

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

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 appropriate formula for each of the following acids, bases, and salts, showing dissociation reactions, and calculate the pH of each solution.

1. Acetic acid, CH_3COOH , $K_a = 1.8 \times 10^{-5}$
2. Hydrofluoric acid, HF , $K_a = 6.6 \times 10^{-4}$
3. Hydrocyanic acid, HCN , $K_a = 4.9 \times 10^{-10}$
4. Hydrobromic acid, HBr , $K_a = 1.0 \times 10^3$
5. Hydrochloric acid, HCl , $K_a = 1.0 \times 10^7$
6. Hydroiodic acid, HI , $K_a = 1.0 \times 10^9$
7. Hydroperchloric acid, $HClO_4$, $K_a = 1.0 \times 10^4$
8. Hydroperbromic acid, $HBrO_4$, $K_a = 1.0 \times 10^4$
9. Hydroperchloric acid, $HClO_4$, $K_a = 1.0 \times 10^4$
10. Hydroperbromic acid, $HBrO_4$, $K_a = 1.0 \times 10^4$
11. Hydroperchloric acid, $HClO_4$, $K_a = 1.0 \times 10^4$
12. Hydroperbromic acid, $HBrO_4$, $K_a = 1.0 \times 10^4$
13. Hydroperchloric acid, $HClO_4$, $K_a = 1.0 \times 10^4$
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19. Hydroperchloric acid, $HClO_4$, $K_a = 1.0 \times 10^4$
20. Hydroperbromic acid, $HBrO_4$, $K_a = 1.0 \times 10^4$

1. Acetic acid, CH_3COOH
2. Hydrofluoric acid, HF
3. Hydrocyanic acid, HCN
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19. Hydroperchloric acid, $HClO_4$
20. Hydroperbromic acid, $HBrO_4$

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On Being Well-coordinated: A Half-century Of Research On Transition Metal Complexes John L Burmeister, Fred Basolo, 2003-10-14 This invaluable book distils the research accomplishments of Professor Fred Basolo during the five decades when he served as a world leader in the modern renaissance of inorganic chemistry Its primary focus is on the very important area of chemistry known as coordination chemistry Most of the elements in the periodic table are metals and most of the chemistry of metals involves coordination chemistry This is the case in the currently significant areas of research including organometallic homogenous catalysis biological reactions of metalloproteins and even the solid state extended structures of new materials In these systems the metals are of primary importance because they are the sites of ligand substitution or redox reactions In the solid materials the coordination number of the metal and its stereochemistry are of major importance Some fifty years of research on transition metal complexes carried out in the laboratory of Professor Basolo at Northwestern University is recorded here as selected scientific publications The book is divided into three different major research areas each dealing with some aspect of coordination chemistry In each case introductory remarks are presented which indicate what prompted the research projects and what the major accomplishments were Although the research was of the academic curiosity driven type some aspects have proven to be useful to others involved in projects that were much more applied in nature

Advances in Inorganic Chemistry and Radiochemistry, 1961-01-01 *Advances in Inorganic Chemistry and Radiochemistry* *Textbook of Pulmonary and Critical Care Medicine Vols 1 and 2* SK Jindal, PS Shankar, Suhail Raoof, Dheeraj Gupta, 2011-01-31 This book published in two volumes Both volume divided in twenty three sections all sections and chapters are most important The *Textbook of Pulmonary and Critical Care Medicine* also offers a unique exposure to the problems in many parts of the world Tuberculosis the number one treatable condition has been extensively covered and special topics such as multi drug resistance directly observed therapy TB prevention nonpharmacologic approaches and extrapulmonary tuberculosis are particularly relevant Many countries are facing a growing burden of noncommunicable respiratory diseases They have become the second leading cause of death after injuries and their impact on indirect costs such as loss of work and home productivity is enormous These problems are addressed and measures of prevention such as smoking cessation are included Other special challenges including topics such as indoor and outdoor air pollution climate change poisoning with pesticides snakebite toxicity pulmonary manifestations of tropical infections and industrial accidents such as the tragedy seen in Bhopal Madhya Pradesh with methyl isocyanate have been well covered However as globalization flattens the playing field and countries leap to industrialization cultural beliefs natural resources climate and geography have slowed the pace of development in many parts of the world Poverty leads to malnutrition homelessness lack of education and poor access to health care Overcrowded cities and rural underdevelopment are other challenges that impact health in the various parts of the world Moreover epidemics of HIV drug abuse and smoking

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Van Nostrand's Scientific Encyclopedia Douglas M. Considine, Glenn D. Considine, 2013-12-11 Advancements in science and engineering have occurred at a surprisingly rapid pace since the release of the seventh edition of this encyclopedia Large portions of the reference have required comprehensive rewriting and new illustrations Scores of new topics have been included to create this thoroughly updated eighth edition The appearance of this new edition in 1994 marks the continuation of a tradition commenced well over a half century ago in 1938 Van Nostrand's Scientific Encyclopedia First Edition was published and welcomed by educators worldwide at a time when what we know today as modern science was just getting underway The early encyclopedia was well received by students and educators alike during a critical time span when science became established as a major factor in shaping the progress and economy of individual nations and at the global level A vital need existed for a permanent science reference that could be updated periodically and made conveniently available to audiences that numbered in the millions The pioneering VNSE met these criteria and continues today as a reliable technical information source for making private and public decisions that present a backdrop of technical alternatives

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