

19.2

HYDROGEN IONS AND ACIDITY

Section Review

Objectives

1. Calculate K_a and K_b for weak acids and bases, and calculate pK_a and pK_b for weak acids and bases.
2. Calculate K_a and K_b for weak acids and bases, and calculate pK_a and pK_b for weak acids and bases.
3. Calculate the pH of weak acid and base solutions.

Vocabulary

- | | | |
|-----------------|--------------------------------------|-------------------|
| acid | acid dissociation constant (K_a) | acid ionization |
| acidic solution | acid strength | alkaline solution |
| base | base dissociation constant (K_b) | base ionization |
| basic solution | base strength | base ionization |

Key Equations

- | | |
|---|--|
| $K_a = \frac{[H^+][A^-]}{[HA]}$ (Equation 19.1) | $K_b = \frac{[OH^-][HB^+]}{[B]}$ (Equation 19.2) |
| $pH = -\log[H^+]$ (Equation 19.3) | $pOH = -\log[OH^-]$ (Equation 19.4) |

Part A Completion

Write the appropriate formula or name for each compound, and write its K_a or K_b value. Write the name of the compound, and write its K_a or K_b value.

1. K_a of acetic acid is 1.8×10^{-5} . Write the formula of acetic acid.

2. K_b of ammonia is 1.8×10^{-5} . Write the formula of ammonia.

3. K_a of hydrofluoric acid is 6.6×10^{-4} . Write the formula of hydrofluoric acid.

4. K_b of methylamine is 4.4×10^{-4} . Write the formula of methylamine.

5. K_a of formic acid is 1.8×10^{-4} . Write the formula of formic acid.

6. K_b of pyridine is 1.7×10^{-9} . Write the formula of pyridine.

7. K_a of benzoic acid is 6.3×10^{-5} . Write the formula of benzoic acid.

8. K_b of ethylamine is 5.6×10^{-4} . Write the formula of ethylamine.

9. K_a of lactic acid is 1.4×10^{-4} . Write the formula of lactic acid.

10. K_b of dimethylamine is 5.6×10^{-4} . Write the formula of dimethylamine.

11. K_a of propanoic acid is 1.3×10^{-5} . Write the formula of propanoic acid.

1. K_a of acetic acid is 1.8×10^{-5} . Write the formula of acetic acid.
2. K_b of ammonia is 1.8×10^{-5} . Write the formula of ammonia.
3. K_a of hydrofluoric acid is 6.6×10^{-4} . Write the formula of hydrofluoric acid.
4. K_b of methylamine is 4.4×10^{-4} . Write the formula of methylamine.
5. K_a of formic acid is 1.8×10^{-4} . Write the formula of formic acid.
6. K_b of pyridine is 1.7×10^{-9} . Write the formula of pyridine.
7. K_a of benzoic acid is 6.3×10^{-5} . Write the formula of benzoic acid.
8. K_b of ethylamine is 5.6×10^{-4} . Write the formula of ethylamine.
9. K_a of lactic acid is 1.4×10^{-4} . Write the formula of lactic acid.
10. K_b of dimethylamine is 5.6×10^{-4} . Write the formula of dimethylamine.
11. K_a of propanoic acid is 1.3×10^{-5} . Write the formula of propanoic acid.

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Kathleen Armour



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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 distills 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

addiction take a greater toll on the population Yes the world is flat but the terrain is filled with mountains and valleys and local problems demand local solutions And these local problems need to be explored and presented with a scholarly perspective The Textbook of Pulmonary and Critical Care Medicine has successfully incorporated these sociodemographic factors into the subject matter The text is well written and the chapters are carefully referenced with subjects found in all traditional pulmonary and critical care textbooks e g airway diseases interstitial lung disease pleural disease pulmonary neoplasia pulmonary infection sleep and critical care There are several nontraditional sections as well that are practical and especially helpful to the practicing physician These include a section on the symptom approach to lung disease an overview of the pharmacologic agents used to treat lung disease and a comprehensive review of methods in lung diagnosis from the simple history and physical examination to the latest complex tools of interventional pulmonology The textbook is especially unique because of the abundance of illustrations flow charts and tables There are many radiographic and pathologic reproductions that are especially helpful

Textbook of Pulmonary and Critical Care Medicine Vols 1 and 2 SK Jindal, PS Shankar, Suhail Raoof, Dheeraj Gupta, 2011-03-20 Book includes the basic principles of Pulmonology as well as the recent advances in allied clinical sciences relevant to pulmonology Includes valuable inputs on tuberculosis other pulmonary infections environmental and occupational medicine sleep disorders and general systemic diseases affecting the respiratory system Although critical care is relevant for most of the medical and surgical specialties the pulmonologist have a more vested interest than other specialists Assisted respiration which forms the core of most critical care lies in the primary domain of pulmonologists

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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sun dec 6 2020 as marley battles the mid east alliance to end a four year war a group of warrior candidates on the front lines compete to be the successor of the armored titan 9 2 10 38k rate watch options

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attack on titan with josh grelle bryce papenbrook yûki kaji yui ishikawa after his hometown is destroyed and his mother is killed young eren jaeger vows to cleanse the earth of the giant humanoid titans that have brought humanity to the brink of extinction

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in this post apocalyptic sci fi story humanity has been devastated by the bizarre giant humanoids known as the titans little is known about where they came from or why they are bent on consuming mankind

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oct 4 2023 season 4 has been stretched out having begun airing back in december 2020 the season will ultimately consist of 30 episodes the final chapters part 1 consisted of two chapters in the first chapter eren reflects on his role in initiating the

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atomic number and mass number must balance atomic number balances charge mass number balances atoms stuff
properties of radioactive decay three types alpha beta gamma g

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types of radioactive decay alpha production a helium nucleus 238 4 234 92 u 2 he 90th 0 beta production b 1 e 234 234 90th
91pa 0 1e 4 2 he 2 alpha radiation limited to very large nuclei

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identified by the number of protons and neutrons in the nucleus 228 a radium 228 or 88 ra ii mass defect and nuclear stability a mass defect 1 the difference between the mass of an atom and the sum of the masses of

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