

## 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 acids and bases.
2. Calculate  $K_a$  and  $K_b$  for weak acids and bases, and vice versa for weak acids and bases.
3. Calculate the pH of weak acids and bases.

## 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 words in the blanks to complete the following sentences. Write the appropriate words in the blanks to complete the following sentences.

1. The  $K_a$  of a weak acid is  $1.0 \times 10^{-4}$ . The  $K_b$  of its conjugate base is  $1.0 \times 10^{-10}$ .
2. The  $K_b$  of a weak base is  $1.0 \times 10^{-4}$ . The  $K_a$  of its conjugate acid is  $1.0 \times 10^{-10}$ .
3. The  $K_a$  of a weak acid is  $1.0 \times 10^{-4}$ . The  $K_b$  of its conjugate base is  $1.0 \times 10^{-10}$ .
4. The  $K_b$  of a weak base is  $1.0 \times 10^{-4}$ . The  $K_a$  of its conjugate acid is  $1.0 \times 10^{-10}$ .
5. The  $K_a$  of a weak acid is  $1.0 \times 10^{-4}$ . The  $K_b$  of its conjugate base is  $1.0 \times 10^{-10}$ .
6. The  $K_b$  of a weak base is  $1.0 \times 10^{-4}$ . The  $K_a$  of its conjugate acid is  $1.0 \times 10^{-10}$ .
7. The  $K_a$  of a weak acid is  $1.0 \times 10^{-4}$ . The  $K_b$  of its conjugate base is  $1.0 \times 10^{-10}$ .
8. The  $K_b$  of a weak base is  $1.0 \times 10^{-4}$ . The  $K_a$  of its conjugate acid is  $1.0 \times 10^{-10}$ .
9. The  $K_a$  of a weak acid is  $1.0 \times 10^{-4}$ . The  $K_b$  of its conjugate base is  $1.0 \times 10^{-10}$ .
10. The  $K_b$  of a weak base is  $1.0 \times 10^{-4}$ . The  $K_a$  of its conjugate acid is  $1.0 \times 10^{-10}$ .

1.  $K_a$  of weak acid
2.  $K_b$  of weak base
3.  $K_a$  of weak acid
4.  $K_b$  of weak base
5.  $K_a$  of weak acid
6.  $K_b$  of weak base
7.  $K_a$  of weak acid
8.  $K_b$  of weak base
9.  $K_a$  of weak acid
10.  $K_b$  of weak base

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**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

*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,2011-03-20 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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