

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

- | | |
|---------------------------------|----------------------------------|
| $K_a = \frac{[H^+][A^-]}{[HA]}$ | $K_b = \frac{[OH^-][HB^+]}{[B]}$ |
| $pH = -\log[H^+]$ | $pOH = -\log[OH^-]$ |

Part A Completion

Write the appropriate formula or name for each compound, and then identify whether it is an acid or a base. Write the appropriate K_a or K_b expression for each compound.

1. HNO_3 (nitric acid) $K_a = 4.0 \times 10^{-4}$

2. H_2SO_4 (sulfuric acid) $K_a = 1.0 \times 10^{-2}$

3. HCl (hydrochloric acid) $K_a = 1.0 \times 10^{-7}$

4. H_2CO_3 (carbonic acid) $K_a = 4.3 \times 10^{-7}$

5. H_2O (water) $K_a = 1.0 \times 10^{-14}$

6. H_2O (water) $K_b = 1.0 \times 10^{-14}$

7. H_2O (water) $K_a = 1.0 \times 10^{-14}$

8. H_2O (water) $K_b = 1.0 \times 10^{-14}$

9. H_2O (water) $K_a = 1.0 \times 10^{-14}$

10. H_2O (water) $K_b = 1.0 \times 10^{-14}$

11. H_2O (water) $K_a = 1.0 \times 10^{-14}$

1. HNO_3
2. H_2SO_4
3. HCl
4. H_2CO_3
5. H_2O
6. H_2O
7. H_2O
8. H_2O
9. H_2O
10. H_2O
11. H_2O

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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

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

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for a while now these super fun patterns will definitely give you some fresh ideas i found simple tutorials that you can do with the kids along with more complex designs to really challenge yourself

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web different patterns emerge with different numbers and combinations and different colors of strings and there is no end to creativity or learning with string art from creating a simple design to more complex ones the child develops abilities to create various patterns and shapes figure 1