

1-6, 8, 9, 11

## Hydrolysis of Salts and pH of Buffer Solutions

## Pre-lab Questions

Before beginning this experiment in the laboratory, you should be able to answer the following questions.

1. Define Brønsted-Lowry acids and bases.

According to Brønsted-Lowry definitions, an acid is a proton donor and a base is a proton acceptor.

2. Which of the following ions will react with water in a hydrolysis reaction:  $K^+$ ,  $Ba^{2+}$ ,  $Cu^{2+}$ ,  $Zn^{2+}$ ,  $F^-$ ,  $SO_3^{2-}$ , and  $Cl^-$ ?

$Cu^{2+}$ ,  $Zn^{2+}$ ,  $F^-$  and  $SO_3^{2-}$  will undergo hydrolysis.

3. For those ions in question 2 that undergo hydrolysis, write net ionic equations for the hydrolysis reaction.

Example:  $Cu^{2+}(aq) + 2H_2O(l) \rightleftharpoons Cu(OH)_2(s) + 2H^+(aq)$ .

4. The  $K_a$  for HCN is  $4.9 \times 10^{-10}$ . What is the value of  $K_b$  for  $CN^-$ ?

$$K_b = \frac{1.0 \times 10^{-14}}{4.9 \times 10^{-10}} = 2.0 \times 10^{-5}$$

5. What are the conjugate base and conjugate acid of  $H_2PO_4^-$ ?

The conjugate base is  $HPO_4^{2-}$  and the conjugate acid is  $H_3PO_4$ .

6. From what acid and what base were the following salts made:  $K_2SO_4$ ,  $NH_4Cl$ , and  $Ca(NO_3)_2$ ?

For  $Ca^{2+}$  and  $SO_4^{2-}$  salt is made from  $Ca(OH)_2$  and  $H_2SO_4$ .

7. Define the term *salt*.

# Ph Properties Of Buffer Solutions Answer Key Pre Lab

**Lei Shi**



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**Experimental Organic Chemistry** Daniel R. Palleros,2000-02-04 This cutting edge lab manual takes a multiscale approach presenting both micro semi micro and macroscale techniques The manual is easy to navigate with all relevant techniques found as they are needed Cutting edge subjects such as HPLC bioorganic chemistry multistep synthesis and more are presented in a clear and engaging fashion

**Exploring Anatomy & Physiology in the Laboratory** Erin C. Amerman,2017-02-01 Over two previous editions Exploring Anatomy Physiology in the Laboratory EAPL has become one of the best selling A P lab manuals on the market Its unique straightforward practical activity based approach to the study of anatomy and physiology in the laboratory has proven to be an effective approach for students nationwide This comprehensive beautifully illustrated and affordably priced manual is appropriate for a two semester anatomy and physiology laboratory course Through focused activities and by eliminating redundant exposition and artwork found in most primary textbooks this manual complements the lecture material and serves as an efficient and effective tool for learning in the lab

*Methods in Biotechnology* Seung-Beom Hong,M. Bazlur Rashid,Lory Z. Santiago-Vázquez,2016-08-01 As rapid advances in biotechnology occur there is a need for a pedagogical tool to aid current students and laboratory professionals in biotechnological methods Methods in Biotechnology is an invaluable resource for those students and professionals Methods in Biotechnology engages the reader by implementing an active learning approach provided advanced study questions as well as pre and post lab questions for each lab protocol These self directed study sections encourage the reader to not just perform experiments but to engage with the material on a higher level utilizing critical thinking and troubleshooting skills This text is broken into three sections based on level Methods in Biotechnology Advanced Methods in Biotechnology I and Advanced Methods in Biotechnology II Each section contains 14 22 lab exercises with instructor notes in appendices as well as an answer guide as a part of the book companion site This text will be an excellent resource for both students and laboratory professionals in the biotechnology field

**Holt Chemistry** Ralph Thomas Myers,2004 **Laboratory Manual on Biotechnology** P. M. Swamy,2008

**Chemistry in the Laboratory** James M. Postma,Julian L. Roberts,J. Leland Hollenberg,2009-08-07 For nearly 40 years Chemistry in the Laboratory has been meeting the needs of teachers and students This new edition builds on that legacy while addressing cutting edge trends in the chemistry laboratory including forensic chemistry and environmental and green chemistry As always the new edition of Chemistry in the Laboratory offers precise easy to follow instructions helpful illustrations and an emphasis throughout on laboratory safety Again throughout a Consider This feature encourages users to expand the principles of the experiment into interesting applications open ended experiments or unexplored corners Most experiments in the manual can be completed in one lab session but some can be linked or extended for a multi lab project

*Biology* ,1987 JJAP ,1982 **Allen's Commercial Organic Analysis** Alfred Henry Allen,1929 **British Abstracts** ,1929 *British Chemical Abstracts* ,1929 Energy Research Abstracts ,1988 Nuclear Science Abstracts

,1970 *Industrial Laboratory*, 1958 **British Abstracts**, 1938 **Journal of Imaging Technology**, 1985 *British Ceramic Abstracts*, 1981 **The Planter and Sugar Manufacturer**, 1926 **Louisiana Planter and Sugar Manufacturer**, 1926 **Food Science and Technology Abstracts**, 1974 Monthly References from world literature of books about 1000 journals and patents from 18 selected countries Classified arrangement according to 18 sections such as milk and dairy products eggs and egg products and food microbiology Author subject indexes

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