

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  $K_2SO_4$ ,  $CaSO_4$  may be made from  $Ca(OH)_2$  and  $H_2SO_4$ .

7

- Define the term salt.

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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

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Laboratory Manual on Biotechnology P. M. Swamy,2008 *Holt Chemistry* Ralph Thomas Myers,2004 **Nuclear Science Abstracts** ,1971 **Cumulated Index Medicus** ,1971 Gums and Stabilisers for the Food Industry 12 Glyn O Phillips,Peter A Williams,2009-10-21 The latest volume in the successful Special Publication Series captures the most recent research findings in the field of food hydrocolloids The impressive list of contributions from international experts includes topics such as Hydrocolloids as dietary fibre The role of hydrocolloids in controlling the microstructure of foods The characterisation of hydrocolloids Rheological properties The influence of hydrocolloids on emulsion stability Low moisture systems Applications of hydrocolloids in food products Gums and Stabilisers for the Food Industry 12 with its wide breadth of coverage will be of great value to all who research produce process or use hydrocolloids both in industry and academia

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*Removal of Refractory Pollutants from Wastewater Treatment Plants* Maulin P. Shah,2021-10-07 This book discusses new and innovative trends and techniques in the removal of toxic and or refractory pollutants through various environmental biotechnological processes from wastewater both at the laboratory and industrial scale It focuses primarily on environmentally friendly technologies which respect the principles of sustainable development including the advanced trends in remediation through an approach of environmental biotechnological processes from either industrial or sewage wastewater Features Examines the fate and occurrence of refractory pollutants in wastewater treatment plants WWTPs and the potential approaches for their removal Highlights advanced remediation procedures involving various microbiological and biochemical processes Assesses and compares the potential application of numerous existing treatment techniques and introduces new emerging technologies Removal of Refractory Pollutants from Wastewater Treatment Plants is suitable for practicing engineers researchers water utility managers and students who seek an excellent introduction and basic knowledge in the principles of environmental bioremediation technologies *EPA Publications Bibliography* United States. Environmental Protection Agency,1998 [Index-catalogue of the Library of the Surgeon General's Office, United States Army \(Army Medical Library\).](#) Army Medical Library (U.S.),National Library of Medicine (U.S.),1936 Collection of incunabula and early medical prints in the library of the Surgeon general s office U S Army Ser 3 v 10 p 1415 1436

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