

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 4.9×10^{-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

Karin Nielsen-Saines



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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

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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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