

Date:

Name:

LAB: Properties of Acids and Bases

Purpose

In this activity you will look for several characteristics of both acids and bases to help derive definitions. Then you will react an acid with a base and examine the product.

Materials

Test solutions of:

- hydrochloric acid (HCl)
- sulphuric acid (H_2SO_4)
- acetic acid (CH_3COOH)
- sodium hydroxide (NaOH)
- barium hydroxide ($\text{Ba}(\text{OH})_2$)
- calcium hydroxide ($\text{Ca}(\text{OH})_2$)

wooden splint
magnesium ribbon
2 test tubes

25 mL graduated cylinder
glass stirring rod
red litmus paper
blue litmus paper
phenolphthalein solution
bromothymol blue (BTB)
evaporating dish
medicine dropper
bunsen burner
support stand
scoopula

Procedure

PART A: ACIDS

1. Draw the following table in your lab report. Tabulate your results in the table.

Chemical	Action with:					
	Red Litmus		Blue Litmus		Phenolphthalein	
	before	after	before	after	before	after
HCl						
H_2SO_4						
CH_3COOH						

1. Wash your spot plate carefully and rinse it very thoroughly. Fill four (4) of the depressions with one of the solutions. Return to your work station to work with the indicators.
2. Record the colour of each indicator BEFORE they are used.
3. Dip the Red Litmus paper in the first depression. Record the colour.
4. Dip the Blue Litmus paper in the 2nd depression. Record the colour.
5. Put 2 drops of Phenolphthalein in the 3rd depression. Record the colour. **Be very careful to avoid contact between the drop plate and the dropper.**
6. Put 2 drops of Bromothymol Blue in the 4th depression. Record the colour.

Properties Of Acids And Bases Lab

Bill W. Tillery

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Properties Of Acids And Bases Lab:

Laboratory Manual for Principles of General Chemistry Jo Allan Beran, 2010-11-01 This new edition of the Beran lab manual emphasizes chemical principles as well as techniques The manual helps students understand the timing and situations for the various techniques The Beran lab manual has long been a market leading lab manual for general chemistry Each experiment is presented with concise objectives a comprehensive list of techniques and detailed lab intros and step by step procedures Laboratory Manual for Principles of General Chemistry J. A. Beran, Mark Lassiter, 2022-08-16 Laboratory Manual for Principles of General Chemistry 11th Edition covers two semesters of a general chemistry laboratory program The material focuses on the lab experiences that reinforce the concepts that not all experimental conclusions are the same and depend on identifying an appropriate experimental procedure selecting the proper apparatus employing the proper techniques systematically analyzing and interpreting the data and minimizing inherent variables As a result of good data a scientific and analytical conclusion is made which may or may not be right but is certainly consistent with the data Experiments write textbooks textbooks don't write experiments A student's scientific literacy grows when experiences and observations associated with the scientific method are encountered Further experimentation provides additional cause effect observations leading to an even better understanding of the experiment The 11th edition's experiments are informative and challenging while offering a solid foundation for technique safety and experimental procedure The reporting and analysis of the data and the pre and post lab questions focus on the intuitiveness of the experiment The experiments may accompany any general chemistry textbook and are compiled at the beginning of each curricular unit An Additional Notes column is included in each experiment's Report Sheet to provide a space for recording observations and data during the experiment Continued emphasis on handling data is supported by the Data Analysis section *Biochemistry LabFax*, 2014-06-28 LABFAX volumes are purpose designed data reference books for practising scientists Each book presents key information for a major subject in one place and so saves hours of searching It does not simply collect together data which are already available in catalogues since these are often incomplete and can contain conflicting information Rather the authors and editors of each LABFAX volume have searched the original literature for the accurate data which they know the specialist needs *Biochemistry LabFax* is a detailed compendium of essential information on radioisotopes enzymes proteins nucleic acids lipids plus data on selected techniques such as chromatography electrophoresis etc needed on an almost daily basis by researchers in any area of biochemistry In addition the book acts as a gateway to other sources for information more specific than can be covered in a volume of this size Chemistry Dorin, Prentice Hall Dictionary Editors, 1992 **Chemistry** Lemay, Prentice-Hall Staff, 1996 **Lab Exs In Prin Med Sci** Pearson Custom Publishing, 1990 **Chemistry Essentials For Dummies** John T. Moore, 2010-04-22 Whether studying chemistry as part of a degree requirement or as part of a core curriculum students will find *Chemistry Essentials For Dummies* to be an invaluable quick reference guide to the fundamentals of this often

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