# Properties of Acids and Bases

(Adapted from Flinn Scientific Acid - Base Test Kit I - #AP4567)

#### Introduction

Battery acid, stomach acid, acid rain - just a few acids in our everyday life! What does it mean when something is acidic? How do acids differ from bases? In this lab, the physical and chemical properties of a variety of acids and bases will be examined.

#### Concepts

Acids vs. Bases

Indicators

- pH.

#### Background

Acids and bases make up two groups of substances that can be categorized by their physical and chemical properties. Let's take a look at the distinguishing properties:

- Taste: Acids, such as lemons or oranges, taste sour. Bases, such as soap, taste bitter. Note: Taste should never be used to identify a lab chemical or unknown substance. This lab does not include a test using taste.
- Feel: Acid solutions do not feel much different than water, however, they sting if they contact broken skin. Base solutions have a slippery feeling. Note: Lab chemicals or unknown substances should never be touched with the bare skin. This lab does not include a test using feel.
- 3. Indicators: An indicator is a chemical compound, either on a test paper or in a solution, that changes color depending on the acidity or basicity of a solution and, thus, is used to test for the presence of acids or bases. There are many different kinds of indicators. Litmus paper and phenolphthalein indicator solution are two of the most common.
  - Blue litmus paper turns red when dipped in an acid solution of pH 1-6.
  - Red litmus paper turns blue when dipped in a basic solution of pH 8-14.
  - In a neutral solution with pH 7, each paper retains its original color.
  - Phenolphthalein indicator solution turns a pink color in a basic solution but remains colorless (sometimes cloudy) in an acidic or neutral solution.
- Reaction with carbonates: While most bases do not react with carbonates, acids react with carbonates to release carbon dioxide gas. For example:

$$BaCO_3 + 2HC1 \rightarrow BaC1_2 + CO_2 + H_2O$$

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Reaction with metals: While most bases do not react with metals, acids react with active metals to release hydrogen gas. For example:

# **Lab Properties Of Acids And Bases Answers**

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### **Lab Properties Of Acids And Bases Answers:**

Practical Chemistry Labs Leonard Saland, 1989 Features self contained step by step activities using common materials and covering topics from food chemistry to papermaking and electrochemistry Illustrates the connection between the real world and chemistry concepts such as solutions chemistry acids and bases and more Includes teacher notes guizzes and answers to help monitor student progress Lab Exs In Prin Med Sci Pearson Custom Publishing, 1990 Chemistry Leonard Saland, 1993 This comprehensive guide gives you lesson plans activities and tests for two sequential semester long chemistry courses It is designed to work with our student book Contemporary Chemistry Each lesson plan features a DO NOW section to engage students as soon as they get to class instructional objectives an aimfor that class period a motivational application questions or demonstrations to help students draw valid conclusions homework assignments You also get term calendars weekly tests and complete answer keys Chemistry in the Laboratory James M. Postma, Julian L. Robert, J. Leland Hollenberg, 2004-03-12 This clearly written class tested manual has long given students hands on experience covering all the essential topics in general chemistry Stand alone experiments provide all the background introduction necessary to work with any general chemistry text This revised edition offers new experiments and expanded information on applications to real world situations Fundamentals of Microbiology Jeffrey C. Pommerville, 2014 Every new copy of the print book includes access code to Student Companion Website The Tenth Edition of Jeffrey Pommerville's best selling award winning classic text Fundamentals of Microbiology provides nursing and allied health students with a firm foundation in microbiology Updated to reflect the Curriculum Guidelines for Undergraduate Microbiology as recommended by the American Society of Microbiology the fully revised tenth edition includes all new pedagogical features and the most current research data This edition incorporates updates on infectious disease and the human microbiome a revised discussion of the immune system and an expanded Learning Design Concept feature that challenges students to develop critical thinking skills Accesible enough for introductory students and comprehensive enough for more advanced learners Fundamentals of Microbiology encourages students to synthesize information think deeply and develop a broad toolset for analysis and research Real life examples actual published experiments and engaging figures and tables ensure student success The texts s design allows students to self evaluate and build a solid platform of investigative skills Enjoyable lively and challenging Fundamentals of Microbiology is an essential text for students in the health sciences New to the fully revised and updated Tenth Edition New Investigating the Microbial World feature in each chapter encourages students to participate in the scientific investigation process and challenges them to apply the process of science and quantitative reasoning through related actual experiments All new or updated discussions of the human microbiome infectious diseases the immune system and evolution Redesigned and updated figures and tables increase clarity and student understanding Includes new and revised critical thinking exercises included in the end of chapter material Incorporates

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## Reviewing Lab Properties Of Acids And Bases Answers: Unlocking the Spellbinding Force of Linguistics

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