

Acidity of Beverages

AP Chemistry Big Idea 1: Investigation 4

An Advanced Inquiry Lab

Introduction

Common beverages (soft drinks, sports drinks, fruit juices, teas, coffees) are acidic because their watered-down formulas are full of acid. Some acids, such as citric acid in the case of lemons and many fruits, are naturally found. Some acids, such as the acids in soft drinks, are made from the combination of water and carbon dioxide (produced by the fermentation of sugars) with oxygen (added).

Concepts

1. Acid-base levels

2. Buffers

3. Chemical

4. pH

5. Equilibrium

6. Properties

Background

This study will measure, compare, and then apply an understanding of acids and bases to the acidity of various beverages. Students should have some knowledge of acids and bases.



Figure 1. Organic structures and full names

The structure of acids is determined from their full or systematic names. With a knowledge of a subset of acids, as shown in Figure 1, you can determine the structure of an acid. Acids are named in two different ways. Some acids, such as citric acid, are named in a way that indicates the number of carboxylic acid groups in the molecule. Some acids, such as acetic acid, are named in a way that indicates the number of carbon atoms in the molecule.



Acid-base chemistry is an important concept in many areas of chemistry. The concept of acids and bases is a central concept in chemistry. The concept of acids and bases is a central concept in chemistry. The concept of acids and bases is a central concept in chemistry.

In the laboratory, you will use a pH meter to measure the acidity of various beverages. The pH meter is a device that measures the acidity of a solution. The pH meter is a device that measures the acidity of a solution. The pH meter is a device that measures the acidity of a solution.

Flinn Scientific Acidity Of Beverages Answers

R. H. Molony



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Modern Medical Science William Cowper Conant, 1892 *The Illustrated London News*, 1869 *What's Wrong with My Drink* R. H. Molony, 2005-01-01 **Measuring the Acid Content of Soft Drinks** A. W. Noling, 1963* Chemistry and Technology of Soft Drinks and Fruit Juices Philip R. Ashurst, 2016-04-11

Soft drinks and fruit juices are produced in almost every country in the world and their availability is remarkable. From the largest cities to some of the remotest villages, soft drinks are available in a variety of flavours and packaging. Over the last decade, soft drinks and fruit juices have been the subject of criticism by the health community, and there is considerable pressure on beverage manufacturers to reduce or even remove the sugar content of these products.

Chemistry and Technology of Soft Drinks and Fruit Juices, Third Edition, provides an overview of the chemistry and technology of soft drinks and fruit juices, covering ingredients, processing, microbiology, traceability, and packaging, as well as global market trends. This fully revised edition now includes chapters on topics that have become prominent in the industry since publication of the previous edition, namely water use and treatment and microbiology technologies.

The book is directed at graduates in food science, chemistry, or microbiology entering production, quality control, new product development, or marketing in the beverage industry, or in companies supplying ingredients or packaging materials to the beverage industry.

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