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Chemistry Of  
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An acid is a chemical species that donates protons or hydrogen ions and/or accepts electrons. ...

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**Acid: Definition  
and Examples in  
Chemistry**

The chemistry of acids and bases and buffers is an important area. For example, the relative strengths of acids influences the formation of nitronium ions in the nitration of

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**Acids and Bases -  
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Aqueous solutions of acids are electrolytes, meaning that they conduct an electrical current. Some acids are strong electrolytes because they ionize completely in water, yielding a great many ions.

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Other acids are weak electrolytes that exist primarily in a non-ionized form when dissolved in water. Acids have a sour taste.

## **Properties of Acids and Bases | Chemistry for Non-Majors**

The Arrhenius

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definition first  
explains acid/base  
chemistry In the  
late 1800s, the  
Swedish scientist  
Svante Arrhenius  
proposed that  
water can dissolve  
many compounds  
by separating them  
into their individual  
ions. Arrhenius  
suggested that  
acids are

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compounds that contain hydrogen and can dissolve in water to release hydrogen ions into solution.

**Acids and Bases I**  
**| Chemistry |**  
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In chemistry, acids and bases have been defined differently by three

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sets of theories.

One is the

Arrhenius

definition, which

revolves around

the idea that acids

are substances

that ionize (break

off) in an aqueous

solution to produce

hydrogen ( $H^+$ )

ions while bases

produce hydroxide

( $OH^-$ ) ions in

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**Overview of  
Acids and Bases -  
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Citric acid is a weak organic acid that gets its name because it is a natural acid in citrus fruits. The chemical is an intermediate

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species in the citric  
acid cycle, which is  
key for aerobic  
metabolism. The  
acid is widely used  
as a flavoring and  
acidifier in food.  
Pure citric acid has  
a tangy, tart flavor.

**10 Common  
Acids and  
Chemical  
Structures**

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Acids are named based on their anion — the ion attached to the hydrogen. In simple binary acids, one ion is attached to hydrogen. Names for such acids consist of the prefix “hydro-“, the first syllable of the anion, and the



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suffix “-ic”. And

Complex acid  
Bases Study  
Questions  
Problems  
Answers

Complex acid  
compounds have  
oxygen in them.

Problems

**Naming Acids  
and Bases |**

**Introduction to  
Chemistry**

Acids and bases  
are used in many  
chemical reactions.

They are  
responsible for

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most color change reaction and are used to adjust the pH of chemical solutions. Here are the names of some of the common acids and bases and the formulas associated with them. Formulas of Binary Acids

## **Formulas of**

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**Common Acids  
and Bases -  
ThoughtCo**

Acids and bases touch upon virtually all areas of chemistry, biochemistry, and physiology. This set of lessons will get you started by presenting the underlying concepts in a

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systematic way.

Aside from the section on pH which presumes an elementary knowledge of logarithms. The subject of acid-base equilibrium calculations is not covered in this ...

## **10: Fundamentals of**

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**Acids and Bases -  
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Together, an acid with its conjugate base (such as  $\text{HNO}_3$  and  $\text{NO}_3^-$ ) or a base with its conjugate ...

**Chemistry: What  
Are Acids and  
Bases? -  
InfoPlease**

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Throughout history, chemists have created different definitions of acids and bases. Today, many people use the Brønsted-Lowry version. It describes an acid as a molecule that will give away a proton — a type of subatomic particle, sometimes called a

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**Explainer: What  
are acids and  
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News for ...**

In modern  
chemistry, we have  
a sound  
understanding of  
acids and bases  
(also called alkalis).

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Acids and bases pervade our lives, from the laboratory to the kitchen, and these crucial substances are used as laboratory reagents, industrial catalysts, food additives, and in cleaning products.

## **Acids and Bases - History of**



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## **Chemistry** And

Examples of chemical properties are reactions with acids and bases, oxidation and reduction (REDOX) and a huge number of other chemical reactions. Changes in which the physical or chemical

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properties of a substance are altered are considered physical or chemical changes, respectively.

Physical change If some aspect of the physical state of matter is altered, but the chemical composition ...

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**Examples of  
chemical  
properties are  
reactions with  
acids ...**

Acids with a low pH of around 1 are very reactive and can be dangerous. The same is true for bases of a pH near 13. Chemists use strong acids and bases to get

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chemical reactions in the lab. Although they can be dangerous, these strong chemicals can also be helpful to us.

**Kids science:  
Acids and Bases -  
Ducksters**

Svante Arrhenius  
Acids and Bases  
The Arrhenius

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theory of acids and bases dates back to 1884, building on his observation that salts, such as sodium chloride, dissociate into what he termed ions when placed into water. acids produce  $H^+$  ions in aqueous solutions bases produce  $OH^-$  ions in aqueous

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