

Words to Know

acids Compounds that release hydrogen ions in water solutions.

bases Compounds that release hydroxide ions in water solutions.

Find out what an acid is.

Foods such as grapefruits, lemons, and vinegar have a sour taste. This is because these foods contain acids. An acid is a compound that releases hydrogen ions (H+) in water solutions. Fruits and many other foods contain weak acids that are very dilute. Stronger, or more concentrated, acids can be very reactive. This means that these acids react easily with certain other substances. Some acids can dissolve metals. Many acids can burn the skin on contact. Many acids are poisonous.

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Find out some chemical properties of acids.

Acids have many chemical properties. Acids turn blue **litmus** (LIT-muhs) **paper** red. Acids react with certain metals to release hydrogen gas. Acids also react with compounds called **bases** to produce water and a salt.

2.	Three	chemical	properties	of	acids	are
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Find out about some acids found in foods.

As we have said, certain foods contain acids. Oranges, lemons, and grapefruits contain Almostall liquids can be identified as an acid or base.

Acids are apposite bases.

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Pipaper - paper that identifies acids and bases within the phase les

citric (SIT-rik) acid. The body can obtain energy from this acid. Vinegar is a dilute solution of acetic (uh-SEE-tik) acid. Milk contains lactic (LAK-tik) acid, which can also supply energy to the body. Vitamin C is ascorbic (ay-SKOR-bik) acid. Ascorbic acid is necessary for good health. Carbonic (kar-BAHN-ik) acid is found in soft drinks.

3.	Some	examples	of	acids	found	in	foods
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Find out about some important corrosive acids.

Some types of acids are **corrosive** (kuh-ROH-siv). Corrosive acids will damage living tissue. A corrosive acid commonly used in chemistry laboratories is **hydrochloric** (hydruh-KLOR-ik) **acid** (HCl). Hydrochloric acid is a solution of hydrogen chloride gas in water. The stomach contains a dilute solution of this, acid. Hydrochloric acid helps break down food. **Sulfuric** (sul-F[Y]UR-ik) **acid** (H₂SO₄) is another common corrosive

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