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intro to acids and bases video khan academy

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acids and bases can be described using the arrhenius model acids produce H^+ ions in aqueous solutions while bases produce OH^- ions we can identify acidic and basic solutions using their distinct and often contrasting properties some of which you are likely familiar with

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after differentiating between types of mixtures we'll dive into solutions learning about solvation and solubility then we'll learn about acids and bases both corrosive and caustic get ready to dissolve your doubts and explore the mysteries of solubility

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solutions are classified as acidic or basic based on their hydrogen ion concentration relative to pure water acidic solutions have a higher H^+ concentration than water greater than $1 \times 10^{-7} \text{ M}$ while basic alkaline solutions have a lower H^+ concentration less than $1 \times 10^{-7} \text{ M}$

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vinegar contains acetic acid your own stomach utilizes hydrochloric acid to digest food acids are a distinct class of compounds because of the properties of their aqueous solutions as outlined below aqueous solutions of acids are electrolytes meaning that they conduct electrical current

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through a process known as hydrolysis the ions produced when an acid and base combine may react with the water molecules to produce a solution that is slightly acidic or basic as a general concept if a strong acid is mixed with a weak base the resulting solution will be slightly acidic

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the mechanism involves a buffer a solution that resists dramatic changes in pH a buffer or buffered solution is one that resists a change in its pH when H^+ or OH^- ions are added or removed owing to some other reaction taking place in the same solution

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what is pH acidity and alkalinity are measured with a logarithmic scale called pH here is why a strongly acidic solution can have one hundred million million or one hundred

trillion 100 000 000 000 000 times more hydrogen ions than a strongly basic solution

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an acid is a contributing product containing hydrogen ions if the solution contains more hydronium ions H_3O^+ than hydroxyl ions OH^- then the given solution is a acid similarly if the solution contains more hydroxyl ions OH^- than hydrogen ions H^+ then the given solution is a base

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an acidic solution is any aqueous solution which has a $\text{pH} < 7$ an aqueous solution is one which has water as its solvent while it s never a good idea to taste an unknown solution acidic solutions are sour in contrast to alkaline solutions which are soapy

how to prepare common acid solutions thoughtco

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common acid solutions such as sulfuric nitric and hydrochloric acid can be prepared using simple recipes

ph calculator

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according to the arrhenius theory in an aqueous solution an acid is a substance able to donate hydrogen ions while a base donates hydroxide ions brønsted lowry theory says that acid can donate protons while a base can accept them

add acid to water or water to acid safely diluting acids

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learn whether to add acid to water or water to acid when making an acid solution find out what happens if dilute sulfuric acid improperly

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here s what you can do to protect plants animals and aquatic ecosystems from the damaging effects of acid rain

acid rain causes effects and solutions to increase in the

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solutions to acid rain some of these solutions include 1 cleaning up exhaust pipes and smokestacks most of the electric power supporting the modern day energy requirements comes from combusting fossil fuels such as oil natural gas and coal that generate nitrogen oxides NO_x and sulfur dioxide SO_2 as the chief contributors to acid rain

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a strong acid is one which completely dissociates in its solvent under most definitions the acid dissociates into a positively charged hydrogen ion proton and a negatively charged anion the seven most common strong acids are hydrochloric acid nitric acid sulfuric acid hydrobromic acid hydroiodic acid perchloric acid and chloric acid

acid rain causes effects and solutions live science

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there are several solutions to stopping human caused acid rain regulating the emissions coming from vehicles and buildings is an important step according to the epa

overview of acids and bases chemistry libretexts

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in chemistry acids and bases have been defined differently by three 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 solution

acid base normality and molarity calculator milliporesigma

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how is the molarity of a percentage solution calculated using 70 concentrated nitric acid as an example 70 nitric acid means that 100 grams of this acid contains 70 grams of hno₃ the concentration is expressed at 70 wt wt or 70 wt hno₃ some chemists and analysts prefer to work in acid concentration units of molarity moles liter

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Oct 01 2022

the best way to cope with the sore throat caused by acid reflux is to identify and manage the cause of your acid reflux in the meantime you can drink warm beverages gargle with salt water and suck on lozenges or a popsicle to alleviate the uncomfortable symptoms 17 sources by michelle pugle

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