



Acids and Bases

How do acids and bases behave in water?

Why?

Acids and bases play an important role in our lives. Numerous biological processes, industrial applications, and even environmental problems are a function of the acidity or basicity (alkalinity) of aqueous solutions. It is therefore important to understand what makes a substance behave as an acid or a base when dissolved in water. In this activity, we will explore the physical and chemical properties of acids and bases.

Model 1 – Arrhenius Acids and Bases

Common Name for Aqueous Solution	Chemical Formula	Found in...	Tastes...	Turns Litmus Paper...	Conducts Electricity?	Acid or Base
Acetic acid	$\text{HC}_2\text{H}_3\text{O}_2(\text{aq})$	Vinegar	Sour	Red	Yes	Acid
Benzoic acid	$\text{HC}_7\text{H}_5\text{O}_2(\text{aq})$	Food preservative	Sour	Red	Yes	Acid
Phosphoric acid	$\text{H}_3\text{PO}_4(\text{aq})$	Soda pop	Sour	Red	Yes	Acid
Hydrochloric acid	$\text{HCl}(\text{aq})$	Stomach acid	Sour	Red	Yes	Acid
Citric acid	$\text{H}_3\text{C}_6\text{H}_7\text{O}_7(\text{aq})$	Citrus fruits	Sour	Red	Yes	Acid
Ascorbic acid	$\text{H}_2\text{C}_6\text{H}_7\text{O}_6(\text{aq})$	Vitamin C	Sour	Red	Yes	Acid
Magnesium hydroxide	$\text{Mg}(\text{OH})_2(\text{aq})$	Milk of magnesia	Bitter	Blue	Yes	Base
Aluminum hydroxide	$\text{Al}(\text{OH})_3(\text{aq})$	Antacids	Bitter	Blue	Yes	Base
Barium hydroxide	$\text{Ba}(\text{OH})_2(\text{aq})$	Lubricants	POISON	Blue	Yes	Base
Sodium hydroxide	$\text{NaOH}(\text{aq})$	Drain cleaner	POISON	Blue	Yes	Base

1. Refer to Model 1.

a. What is the common chemical name for Vitamin C?

Ascorbic Acid

b. Is Vitamin C classified as an acid or a base?

Acid

2. Examine the properties of the Arrhenius acids in Model 1. List three properties that all Arrhenius acids have in common.

They contain Hydrogen, taste sour, and turn litmus paper red

3. Examine the chemical formulas for the Arrhenius acids in Model 1. What feature do all the Arrhenius acid chemical formulas have in common?

Hydrogen ^!!

4. Examine the properties of the Arrhenius bases in Model 1. List two properties that all Arrhenius bases have in common.

Taste bad & turn litmus blue



Pogil Chemistry Answer Key Acids Bases

Wenbin Ji



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Table of Contents Pogil Chemistry Answer Key Acids Bases

1. Understanding the eBook Pogil Chemistry Answer Key Acids Bases
 - The Rise of Digital Reading Pogil Chemistry Answer Key Acids Bases
 - Advantages of eBooks Over Traditional Books
2. Identifying Pogil Chemistry Answer Key Acids Bases
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pogil Chemistry Answer Key Acids Bases
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pogil Chemistry Answer Key Acids Bases
 - Personalized Recommendations
 - Pogil Chemistry Answer Key Acids Bases User Reviews and Ratings
 - Pogil Chemistry Answer Key Acids Bases and Bestseller Lists
5. Accessing Pogil Chemistry Answer Key Acids Bases Free and Paid eBooks
 - Pogil Chemistry Answer Key Acids Bases Public Domain eBooks
 - Pogil Chemistry Answer Key Acids Bases eBook Subscription Services
 - Pogil Chemistry Answer Key Acids Bases Budget-Friendly Options
6. Navigating Pogil Chemistry Answer Key Acids Bases eBook Formats
 - ePub, PDF, MOBI, and More
 - Pogil Chemistry Answer Key Acids Bases Compatibility with Devices
 - Pogil Chemistry Answer Key Acids Bases Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pogil Chemistry Answer Key Acids Bases
 - Highlighting and Note-Taking Pogil Chemistry Answer Key Acids Bases
 - Interactive Elements Pogil Chemistry Answer Key Acids Bases
8. Staying Engaged with Pogil Chemistry Answer Key Acids Bases

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Pogil Chemistry Answer Key Acids Bases
- 9. Balancing eBooks and Physical Books Pogil Chemistry Answer Key Acids Bases
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pogil Chemistry Answer Key Acids Bases
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pogil Chemistry Answer Key Acids Bases
 - Setting Reading Goals Pogil Chemistry Answer Key Acids Bases
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pogil Chemistry Answer Key Acids Bases
 - Fact-Checking eBook Content of Pogil Chemistry Answer Key Acids Bases
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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