

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

Introduction To Acids And Bases Worksheet Pogil Answers

RM Cervero



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Table of Contents Introduction To Acids And Bases Worksheet Pogil Answers

1. Understanding the eBook Introduction To Acids And Bases Worksheet Pogil Answers
 - The Rise of Digital Reading Introduction To Acids And Bases Worksheet Pogil Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Introduction To Acids And Bases Worksheet Pogil Answers
 - 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 Introduction To Acids And Bases Worksheet Pogil Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Introduction To Acids And Bases Worksheet Pogil Answers
 - Personalized Recommendations
 - Introduction To Acids And Bases Worksheet Pogil Answers User Reviews and Ratings
 - Introduction To Acids And Bases Worksheet Pogil Answers and Bestseller Lists
5. Accessing Introduction To Acids And Bases Worksheet Pogil Answers Free and Paid eBooks
 - Introduction To Acids And Bases Worksheet Pogil Answers Public Domain eBooks
 - Introduction To Acids And Bases Worksheet Pogil Answers eBook Subscription Services
 - Introduction To Acids And Bases Worksheet Pogil Answers Budget-Friendly Options

6. Navigating Introduction To Acids And Bases Worksheet Pogil Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Introduction To Acids And Bases Worksheet Pogil Answers Compatibility with Devices
 - Introduction To Acids And Bases Worksheet Pogil Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Introduction To Acids And Bases Worksheet Pogil Answers
 - Highlighting and Note-Taking Introduction To Acids And Bases Worksheet Pogil Answers
 - Interactive Elements Introduction To Acids And Bases Worksheet Pogil Answers
8. Staying Engaged with Introduction To Acids And Bases Worksheet Pogil Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Introduction To Acids And Bases Worksheet Pogil Answers
9. Balancing eBooks and Physical Books Introduction To Acids And Bases Worksheet Pogil Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Introduction To Acids And Bases Worksheet Pogil Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Introduction To Acids And Bases Worksheet Pogil Answers
 - Setting Reading Goals Introduction To Acids And Bases Worksheet Pogil Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Introduction To Acids And Bases Worksheet Pogil Answers
 - Fact-Checking eBook Content of Introduction To Acids And Bases Worksheet Pogil Answers
 - 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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