

Naming Acids

What makes an acid unique and how are acids named?

Why?

A variety of acids are used in foods, industry, and research. Acids are covalently bonded molecules, but when they are put into water they produce ions. One of the ions produced is always H^+ , which immediately combines with a water molecule to form the hydronium ion (H_3O^+). The H_3O^+ ion is what defines the acidic properties of a substance. Because of their special classification, acids have a naming system different from ionic or other molecular (covalent) compounds.

Model 1 – Binary Acids

Acid	Name of acid in aqueous solution	Cation (+)*	Anion (–)
HCl	Hydrochloric acid	H_3O^+	Cl^-
HBr	Hydrobromic acid	H_3O^+	Br^-
H_2S	Hydrosulfuric acid	$2H_3O^+$	S^{2-}
HF	Hydrofluoric acid	H_3O^+	F^-

*Hydrogen ions (H^+) join with water molecules in solution to form hydronium ions, H_3O^+ .

1. Complete the cation and anion columns of the table in Model 1. Be careful to show the charges on the ions.
2. Why does hydrosulfuric acid contain two hydrogens?

Two hydrogens with a +1 charge are required to balance the 2– charge of the sulfide anion.

3. Look at the formulas and names of the binary acids in Model 1.
 - a. What prefix is used at the beginning of the name for all binary acids?

Binary acids begin with the prefix “hydro-.”

- b. What suffix is used at the end of the name for all binary acids?

The names of binary acids end with “-ic,” followed by the word “acid.”

4. The prefix “bi” means “two.” Propose a reason that the acids in Model 1 are all referred to as “binary” acids.

All binary acids have two different elements or atoms in them.



5. Write a rule for naming binary acids.

All binary acids begin with the prefix hydro-, which precedes the name of any nonmetal other than hydrogen, in the compound. The name of this nonmetal is modified to end with the suffix -ic.

Example: hydro_____ic acid.



Pogil Naming Acids Worksheet Answers

Sabine Zange



Pogil Naming Acids Worksheet Answers:

This book delves into Pogil Naming Acids Worksheet Answers. Pogil Naming Acids Worksheet Answers is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Pogil Naming Acids Worksheet Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Pogil Naming Acids Worksheet Answers
- Chapter 2: Essential Elements of Pogil Naming Acids Worksheet Answers
- Chapter 3: Pogil Naming Acids Worksheet Answers in Everyday Life
- Chapter 4: Pogil Naming Acids Worksheet Answers in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Pogil Naming Acids Worksheet Answers. The first chapter will explore what Pogil Naming Acids Worksheet Answers is, why Pogil Naming Acids Worksheet Answers is vital, and how to effectively learn about Pogil Naming Acids Worksheet Answers.
3. In chapter 2, the author will delve into the foundational concepts of Pogil Naming Acids Worksheet Answers. This chapter will elucidate the essential principles that must be understood to grasp Pogil Naming Acids Worksheet Answers in its entirety.
4. In chapter 3, this book will examine the practical applications of Pogil Naming Acids Worksheet Answers in daily life. The third chapter will showcase real-world examples of how Pogil Naming Acids Worksheet Answers can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Pogil Naming Acids Worksheet Answers in specific contexts. This chapter will explore how Pogil Naming Acids Worksheet Answers is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Pogil Naming Acids Worksheet Answers. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Pogil Naming Acids Worksheet Answers.

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Pogil Naming Acids Worksheet Answers Introduction

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ICD-10-PCS coding guidelines and to ...