

Model 2 – Ternary Acids (Oxyacids)

Acid	Name of Acid in Aqueous Solution	Cation (+)	Polyatomic Anion (-)	Polyatomic Anion Name
HClO_3	Chloric acid	H_3O^+	ClO_3^-	Chlorate
H_2SO_3	Sulfurous acid	$2\text{H}_3\text{O}^+$	SO_3^{2-}	Sulfite
H_2SO_4	Sulfuric acid	$2\text{H}_3\text{O}^+$	SO_4^{2-}	Sulfate
H_3PO_3	Phosphorous acid	$3\text{H}_3\text{O}^+$	PO_3^{3-}	Phosphite
H_3PO_4	Phosphoric acid	$3\text{H}_3\text{O}^+$	PO_4^{3-}	Phosphate
HNO_3	Nitric acid	H_3O^+	NO_3^-	Nitrate
HNO_2	Nitrous acid	H_3O^+	NO_2^-	Nitrite
H_2CO_3	Carbonic acid	$2\text{H}_3\text{O}^+$	CO_3^{2-}	Carbonate

6. Look at the formulas of the ternary acids in Model 2.

a. How are ternary acids different from binary acids in their structure?

Ternary acids contain three elements and they also contain the element oxygen.

b. What number do you think the prefix "ter-" refers to?

"ter" refers to three

7. When ternary acids are mixed with water, ions will form. Fill in the table above with the formulas and names of the anions.

8. Examine the pairs of ternary acids in Model 2 that contain sulfur, phosphorus, and nitrogen. Each pair has one acid that ends in "-ic" and another that ends in "-ous." These endings are related to the name of the polyatomic anion found in the acid ("-ate" or "-ite"). Complete the statements below with the correct acid name ending.

Polyatomic anion ending is "-ate" → acid name ending is "ic"

Polyatomic anion ending is "-ite" → acid name ending is "ous"

9. If the prefix "hydro-" were used to name a ternary acid, what problem would this create when naming HClO_3 ?

ClO_3^- has the name of chlorate. "ate" must be replaced with "ic". If "hydro" is used as a prefix, it would be hydrochloric acid. This has the formula HCl , not HClO_3 .

10. Write a rule for naming ternary acids.

- The prefix "hydro" is not used in the name when an acid contains more than two elements and one of the elements is oxygen.

- "ate" is replaced with "ic" and "ite" is replaced with "ous".

11. Predict the formula for chlorous acid.



12. Circle the acid(s) below that would be named beginning with the prefix "hydro-."



Pogil Naming Acids And Answers

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Table of Contents Pogil Naming Acids And Answers

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

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