

A student did the following steps to make zinc chloride crystals from solid zinc oxide.

- step 1 Pour 40 cm³ of dilute hydrochloric acid into a beaker. Add a small amount of zinc oxide. Warm the mixture and stir it.
step 2 Continue to add zinc oxide to the beaker until all of the dilute hydrochloric acid has reacted.
step 3 Remove the excess zinc oxide.
step 4 Obtain crystals of zinc chloride from the solution.

(a) Name the apparatus used in step 1 to:

- (i) add the zinc oxide

Spatula

[1]

- (ii) warm the mixture.

Bunsen Burner

[1]

(b) How did the student know that all of the dilute hydrochloric acid had reacted in step 2?

The solid remains as the ZnO stops reacting and dissolving

[1]

(c) (i) What is meant by the term excess in step 3?

More than enough to react

[1]

(ii) How is the excess zinc oxide removed in step 3?

By Filtration

[1]

(d) Describe how the crystals are obtained in step 4.

Crystals are obtained by first heating and then evaporating the solution until saturated then leave it to cool.

[3]

(e) Suggest how the method would differ if zinc carbonate were used instead of zinc oxide.

Heating would not be necessary in step 1.

[1]

[Total: 9]

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Table of Contents 0620 23 M J 13 Answers

1. Understanding the eBook 0620 23 M J 13 Answers
 - The Rise of Digital Reading 0620 23 M J 13 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying 0620 23 M J 13 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 0620 23 M J 13 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from 0620 23 M J 13 Answers
 - Personalized Recommendations

- 0620 23 M J 13 Answers User Reviews and Ratings
- 0620 23 M J 13 Answers and Bestseller Lists
- 5. Accessing 0620 23 M J 13 Answers Free and Paid eBooks
 - 0620 23 M J 13 Answers Public Domain eBooks
 - 0620 23 M J 13 Answers eBook Subscription Services
 - 0620 23 M J 13 Answers Budget-Friendly Options
- 6. Navigating 0620 23 M J 13 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - 0620 23 M J 13 Answers Compatibility with Devices
 - 0620 23 M J 13 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 0620 23 M J 13 Answers
 - Highlighting and Note-Taking 0620 23 M J 13 Answers
 - Interactive Elements 0620 23 M J 13 Answers
- 8. Staying Engaged with 0620 23 M J 13 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 0620 23 M J 13 Answers
- 9. Balancing eBooks and Physical Books 0620 23 M J 13 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 0620 23 M J 13 Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 0620 23 M J 13 Answers
 - Setting Reading Goals 0620 23 M J 13 Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 0620 23 M J 13 Answers
 - Fact-Checking eBook Content of 0620 23 M J 13 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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