

## The formula of Epsom salt

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**Aim:** Epsom salts are sold as health salts. They are hydrated magnesium sulphate. That means they contain water, called water of crystallization, as well as magnesium sulphate. The formula can be written as  $\text{MgSO}_4 \cdot x\text{H}_2\text{O}$ , and the aim is to find the value for  $x$  in the formula of Epsom salt.

When Epsom salts are heated, the water of crystallization is driven off leaving anhydrous magnesium sulphate,  $\text{MgSO}_4$ .

### **Chemicals and Equipment:**

Epsom salt, crucible, tripod, triangle, spatula, Bunsen burner, balance

### **Procedure**

Record all you weightings in a data table

1. Weight a clean and dry crucible
2. Add approximately 0.5 to 1 cm depth of Epsom salt and note the mass.
3. Place the crucible in the triangle on the tripod.
4. Heat gently at first then strongly for about 5 minutes.
5. Let the crucible cool to about 30 °C. Weigh.
6. Heat again for a couple of minutes. Allow to cool and weigh.
7. If the last two weightings differ by more than 0.05 g, repeat the heating and weighting.
8. Calculate a value for  $x$  in  $\text{MgSO}_4 \cdot x\text{H}_2\text{O}$ .

Mass of crucible: 30.24 g

Mass of crucible and salt: 37.03 g

Mass of salt: 6.79 g

	Before heating	After 1 <sup>st</sup> heating	After 2 <sup>nd</sup> heating	After 3 <sup>rd</sup> heating
Mass of substance (g ±0.01)	6.79	3.87	3.10	3.33
Mass difference in substance (g ±0.01)	0.00	-2.92	-0.77	+0.23

# Epsom Salt Crystal Lab Report

**Kansas. State Board of Agriculture**



## **Epsom Salt Crystal Lab Report:**

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**Crystals** Thomas Vipond Barker,1930      **Annual report** Cape of Good Hope. Cape School Board,1906      Annual Report of the Geological Commission Cape of Good Hope (South Africa). Geological Commission,1906 The reports are issued in two forms as an ordinary Blue book presented to both houses of Parliament printed on common paper and in octavo size and a limited number is printed on thick paper in small quarto size The pagination of the First report is different in the two editions the type having been entirely re set but the contents are identical      **The Natural History of Crystals** Alfred Edwin Howard Tutton,1924      Preliminary Report Connecticut. Agricultural experiment station, Middletown,1876      **The Effects of Directed Versus Non-directed Laboratory Work on High School Chemistry Achievement** Robert Glenn Rainey,1962

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### Table of Contents Epsom Salt Crystal Lab Report

1. Understanding the eBook Epsom Salt Crystal Lab Report
  - The Rise of Digital Reading Epsom Salt Crystal Lab Report
  - Advantages of eBooks Over Traditional Books
2. Identifying Epsom Salt Crystal Lab Report
  - 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 Epsom Salt Crystal Lab Report
  - User-Friendly Interface
4. Exploring eBook Recommendations from Epsom Salt Crystal Lab Report
  - Personalized Recommendations
  - Epsom Salt Crystal Lab Report User Reviews and Ratings
  - Epsom Salt Crystal Lab Report and Bestseller Lists
5. Accessing Epsom Salt Crystal Lab Report Free and Paid eBooks
  - Epsom Salt Crystal Lab Report Public Domain eBooks
  - Epsom Salt Crystal Lab Report eBook Subscription Services
  - Epsom Salt Crystal Lab Report Budget-Friendly Options
6. Navigating Epsom Salt Crystal Lab Report eBook Formats
  - ePub, PDF, MOBI, and More
  - Epsom Salt Crystal Lab Report Compatibility with Devices
  - Epsom Salt Crystal Lab Report Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Epsom Salt Crystal Lab Report
  - Highlighting and Note-Taking Epsom Salt Crystal Lab Report
  - Interactive Elements Epsom Salt Crystal Lab Report
8. Staying Engaged with Epsom Salt Crystal Lab Report

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Epsom Salt Crystal Lab Report
- 9. Balancing eBooks and Physical Books Epsom Salt Crystal Lab Report
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Epsom Salt Crystal Lab Report
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Epsom Salt Crystal Lab Report
  - Setting Reading Goals Epsom Salt Crystal Lab Report
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Epsom Salt Crystal Lab Report
  - Fact-Checking eBook Content of Epsom Salt Crystal Lab Report
  - 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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