

# Deuterium Oxide Industry Research Report 2023

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## Abstracts

Deuterium oxide (CAS 7789-20-0), also known as “heavy water” or “deuterium water”, is the compound of oxygen and the heavy isotope of hydrogen, namely deuterium. It is called heavy water because its density is greater than H<sub>2</sub>O and its chemical formula is D<sub>2</sub>O. Deuterium contains a neutron and proton in its nucleus, which makes it twice as heavy as protium (hydrogen), which contains only one proton. Deuterium oxide is colorless and odorless liquid in normal temperature and pressure. Compared to ordinary water, its chemical characteristic is relatively inactive with specific gravity of 1.10775 (25 °C), melting/freezing point of 3.82 °C, and boiling point of 101.42 °C. The hydrogen bond strength and degree of association between heavy water molecules are both stronger than that of ordinary water molecules.

## Highlights

The global Deuterium Oxide market is projected to reach US\$ million by 2029 from an estimated US\$ million in 2022, at a CAGR of % during 2023 and 2029.

Global deuterium oxide (CAS 7789-20-0) includes Isowater, Heavy Water Board (HWB), deutraMed Inc, and Qatran Complex, etc. Global top 3 companies hold a share over 53%. North America is the largest market, with a share about 80%, followed by Iran with the share about 10%.

## Report Scope

This report aims to provide a comprehensive presentation of the global market for Deuterium Oxide, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Deuterium Oxide.

The Deuterium Oxide market size, estimations, and forecasts are provided in terms of output/shipments (Kg) and revenue (\$ millions), considering 2022 as the base year, with history and forecast data for the period from 2018 to 2029. This report segments the global Deuterium Oxide market comprehensively. Regional market sizes, concerning products by types, by application, and by players, are also provided. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

The report will help the Deuterium Oxide manufacturers, new entrants, and industry chain related companies in this market with information on the revenues, production, and average price for the overall market and the sub-segments across the different segments, by company, product type, application, and regions.

### Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2018-2023. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

Isowater

Heavy Water Board (HWB)

deutraMed Inc

Qatran Complex

## Product Type Insights

Global markets are presented by Deuterium Oxide purity, along with growth forecasts through 2029. Estimates on production and value are based on the price in the supply chain at which the Deuterium Oxide are procured by the manufacturers.

This report has studied every segment and provided the market size using historical data. They have also talked about the growth opportunities that the segment may pose in the future. This study bestows production and revenue data by type, and during the historical period (2018-2023) and forecast period (2024-2029).

### Deuterium Oxide segment by Purity

0.999

0.998

## Application Insights

This report has provided the market size (production and revenue data) by application, during the historical period (2018-2023) and forecast period (2024-2029).

This report also outlines the market trends of each segment and consumer behaviors impacting the Deuterium Oxide market and what implications these may have on the industry's future. This report can help to understand the relevant market and consumer trends that are driving the Deuterium Oxide market.

### Deuterium Oxide segment by Application

Deuterium Production

Deuterated Solvents

Nuclear Industry

Others

## Regional Outlook

This section of the report provides key insights regarding various regions and the key players operating in each region. Economic, social, environmental, technological, and political factors have been taken into consideration while assessing the growth of the particular region/country. The readers will also get their hands on the revenue and sales data of each region and country for the period 2018-2029.

The market has been segmented into various major geographies, including North America, Europe, Asia-Pacific, South America. Detailed analysis of major countries such as the USA, Germany, the U.K., Italy, France, China, Japan, South Korea, Southeast Asia, and India will be covered within the regional segment. For market estimates, data are going to be provided for 2022 because of the base year, with estimates for 2023 and forecast value for 2029.

### North America

United States

Canada

### Europe

Germany

France

U.K.

Italy

Russia

### Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

## Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

## COVID-19 and Russia-Ukraine War Influence Analysis

The readers in the section will understand how the Deuterium Oxide market scenario changed across the globe during the pandemic, post-pandemic and Russia-Ukraine War. The study is done keeping in view the changes in aspects such as demand, consumption, transportation, consumer behavior, supply chain management, export and import, and production. The industry experts have also highlighted the key factors that will help create opportunities for players and stabilize the overall industry in the years to

come.

## Reasons to Buy This Report

This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Deuterium Oxide market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.

This report will help stakeholders to understand the global industry status and trends of Deuterium Oxide and provides them with information on key market drivers, restraints, challenges, and opportunities.

This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.

This report stays updated with novel technology integration, features, and the latest developments in the market

This report helps stakeholders to understand the COVID-19 and Russia-Ukraine War Influence on the Deuterium Oxide industry.

This report helps stakeholders to gain insights into which regions to target globally

This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Deuterium Oxide.

This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

## Core Chapters

Chapter 1: Research objectives, research methods, data sources, data cross-validation;

Chapter 2: Introduces the report scope of the report, executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 3: Detailed analysis of Deuterium Oxide manufacturers competitive landscape, price, production and value market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 5: Production/output, value of Deuterium Oxide by region/country. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 6: Consumption of Deuterium Oxide in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 7: Provides the analysis of various market segments by purity, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 8: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 11: The main points and conclusions of the report.

## Contents

### 1 PREFACE

- 1.1 Scope of Report
- 1.2 Reasons for Doing This Study
- 1.3 Research Methodology
- 1.4 Research Process
- 1.5 Data Source
  - 1.5.1 Secondary Sources
  - 1.5.2 Primary Sources

### 2 MARKET OVERVIEW

- 2.1 Product Definition
- 2.2 Deuterium Oxide by Purity
  - 2.2.1 Market Value Comparison by Purity (2018 VS 2022 VS 2029) & (US\$ Million)
    - 1.2.2 0.999
    - 1.2.3 0.998
- 2.3 Deuterium Oxide by Application
  - 2.3.1 Market Value Comparison by Application (2018 VS 2022 VS 2029) & (US\$ Million)
  - 2.3.2 Deuterium Production
  - 2.3.3 Deuterated Solvents
  - 2.3.4 Nuclear Industry
  - 2.3.5 Others
- 2.4 Global Market Growth Prospects
  - 2.4.1 Global Deuterium Oxide Production Value Estimates and Forecasts (2018-2029)
  - 2.4.2 Global Deuterium Oxide Production Capacity Estimates and Forecasts (2018-2029)
  - 2.4.3 Global Deuterium Oxide Production Estimates and Forecasts (2018-2029)
  - 2.4.4 Global Deuterium Oxide Market Average Price (2018-2029)

### 3 MARKET COMPETITIVE LANDSCAPE BY MANUFACTURERS

- 3.1 Global Deuterium Oxide Production by Manufacturers (2018-2023)
- 3.2 Global Deuterium Oxide Production Value by Manufacturers (2018-2023)
- 3.3 Global Deuterium Oxide Average Price by Manufacturers (2018-2023)
- 3.4 Global Deuterium Oxide Industry Manufacturers Ranking, 2021 VS 2022 VS 2023



- 3.5 Global Deuterium Oxide Key Manufacturers, Manufacturing Sites & Headquarters
- 3.6 Global Deuterium Oxide Manufacturers, Product Type & Application
- 3.7 Global Deuterium Oxide Manufacturers, Date of Enter into This Industry
- 3.8 Global Deuterium Oxide Market CR5 and HHI
- 3.9 Global Manufacturers Mergers & Acquisition

## **4 MANUFACTURERS PROFILED**

### 4.1 Isowater

- 4.1.1 Isowater Deuterium Oxide Company Information
- 4.1.2 Isowater Deuterium Oxide Business Overview
- 4.1.3 Isowater Deuterium Oxide Production Capacity, Value and Gross Margin

(2018-2023)

- 4.1.4 Isowater Product Portfolio
- 4.1.5 Isowater Recent Developments

### 4.2 Heavy Water Board (HWB)

- 4.2.1 Heavy Water Board (HWB) Deuterium Oxide Company Information
- 4.2.2 Heavy Water Board (HWB) Deuterium Oxide Business Overview
- 4.2.3 Heavy Water Board (HWB) Deuterium Oxide Production Capacity, Value and

Gross Margin (2018-2023)

- 4.2.4 Heavy Water Board (HWB) Product Portfolio
- 4.2.5 Heavy Water Board (HWB) Recent Developments

### 4.3 deutraMed Inc

- 4.3.1 deutraMed Inc Deuterium Oxide Company Information
- 4.3.2 deutraMed Inc Deuterium Oxide Business Overview
- 4.3.3 deutraMed Inc Deuterium Oxide Production Capacity, Value and Gross Margin

(2018-2023)

- 4.3.4 deutraMed Inc Product Portfolio
- 4.3.5 deutraMed Inc Recent Developments

### 4.4 Qatran Complex

- 4.4.1 Qatran Complex Deuterium Oxide Company Information
- 4.4.2 Qatran Complex Deuterium Oxide Business Overview
- 4.4.3 Qatran Complex Deuterium Oxide Production Capacity, Value and Gross Margin

(2018-2023)

- 4.4.4 Qatran Complex Product Portfolio
- 4.4.5 Qatran Complex Recent Developments

## **5 GLOBAL DEUTERIUM OXIDE PRODUCTION BY REGION**

- 5.1 Global Deuterium Oxide Production Estimates and Forecasts by Region: 2018 VS 2022 VS 2029
- 5.2 Global Deuterium Oxide Production by Region: 2018-2029
  - 5.2.1 Global Deuterium Oxide Production by Region: 2018-2023
  - 5.2.2 Global Deuterium Oxide Production Forecast by Region (2024-2029)
- 5.3 Global Deuterium Oxide Production Value Estimates and Forecasts by Region: 2018 VS 2022 VS 2029
- 5.4 Global Deuterium Oxide Production Value by Region: 2018-2029
  - 5.4.1 Global Deuterium Oxide Production Value by Region: 2018-2023
  - 5.4.2 Global Deuterium Oxide Production Value Forecast by Region (2024-2029)
- 5.5 Global Deuterium Oxide Market Price Analysis by Region (2018-2023)
- 5.6 Global Deuterium Oxide Production and Value, YOY Growth
  - 5.6.1 North America Deuterium Oxide Production Value Estimates and Forecasts (2018-2029)
  - 5.6.2 Europe Deuterium Oxide Production Value Estimates and Forecasts (2018-2029)
  - 5.6.3 China Deuterium Oxide Production Value Estimates and Forecasts (2018-2029)
  - 5.6.4 Japan Deuterium Oxide Production Value Estimates and Forecasts (2018-2029)

## **6 GLOBAL DEUTERIUM OXIDE CONSUMPTION BY REGION**

- 6.1 Global Deuterium Oxide Consumption Estimates and Forecasts by Region: 2018 VS 2022 VS 2029
- 6.2 Global Deuterium Oxide Consumption by Region (2018-2029)
  - 6.2.1 Global Deuterium Oxide Consumption by Region: 2018-2029
  - 6.2.2 Global Deuterium Oxide Forecasted Consumption by Region (2024-2029)
- 6.3 North America
  - 6.3.1 North America Deuterium Oxide Consumption Growth Rate by Country: 2018 VS 2022 VS 2029
  - 6.3.2 North America Deuterium Oxide Consumption by Country (2018-2029)
  - 6.3.3 United States
  - 6.3.4 Canada
- 6.4 Europe
  - 6.4.1 Europe Deuterium Oxide Consumption Growth Rate by Country: 2018 VS 2022 VS 2029
  - 6.4.2 Europe Deuterium Oxide Consumption by Country (2018-2029)
  - 6.4.3 Germany
  - 6.4.4 France
  - 6.4.5 U.K.
  - 6.4.6 Italy

6.4.7 Russia

6.5 Asia Pacific

6.5.1 Asia Pacific Deuterium Oxide Consumption Growth Rate by Country: 2018 VS 2022 VS 2029

6.5.2 Asia Pacific Deuterium Oxide Consumption by Country (2018-2029)

6.5.3 China

6.5.4 Japan

6.5.5 South Korea

6.5.6 China Taiwan

6.5.7 Southeast Asia

6.5.8 India

6.5.9 Australia

6.6 Latin America, Middle East & Africa

6.6.1 Latin America, Middle East & Africa Deuterium Oxide Consumption Growth Rate by Country: 2018 VS 2022 VS 2029

6.6.2 Latin America, Middle East & Africa Deuterium Oxide Consumption by Country (2018-2029)

6.6.3 Mexico

6.6.4 Brazil

6.6.5 Turkey

6.6.5 GCC Countries

## **7 SEGMENT BY PURITY**

7.1 Global Deuterium Oxide Production by Purity (2018-2029)

7.1.1 Global Deuterium Oxide Production by Purity (2018-2029) & (Kg)

7.1.2 Global Deuterium Oxide Production Market Share by Purity (2018-2029)

7.2 Global Deuterium Oxide Production Value by Purity (2018-2029)

7.2.1 Global Deuterium Oxide Production Value by Purity (2018-2029) & (US\$ Million)

7.2.2 Global Deuterium Oxide Production Value Market Share by Purity (2018-2029)

7.3 Global Deuterium Oxide Price by Purity (2018-2029)

## **8 SEGMENT BY APPLICATION**

8.1 Global Deuterium Oxide Production by Application (2018-2029)

8.1.1 Global Deuterium Oxide Production by Application (2018-2029) & (Kg)

8.1.2 Global Deuterium Oxide Production by Application (2018-2029) & (Kg)

8.2 Global Deuterium Oxide Production Value by Application (2018-2029)

8.2.1 Global Deuterium Oxide Production Value by Application (2018-2029) & (US\$

Million)

8.2.2 Global Deuterium Oxide Production Value Market Share by Application (2018-2029)

8.3 Global Deuterium Oxide Price by Application (2018-2029)

## **9 VALUE CHAIN AND SALES CHANNELS ANALYSIS OF THE MARKET**

9.1 Deuterium Oxide Value Chain Analysis

9.1.1 Deuterium Oxide Key Raw Materials

9.1.2 Raw Materials Key Suppliers

9.1.3 Deuterium Oxide Production Mode & Process

9.2 Deuterium Oxide Sales Channels Analysis

9.2.1 Direct Comparison with Distribution Share

9.2.2 Deuterium Oxide Distributors

9.2.3 Deuterium Oxide Customers

## **10 GLOBAL DEUTERIUM OXIDE ANALYZING MARKET DYNAMICS**

10.1 Deuterium Oxide Industry Trends

10.2 Deuterium Oxide Industry Drivers

10.3 Deuterium Oxide Industry Opportunities and Challenges

10.4 Deuterium Oxide Industry Restraints

## **11 REPORT CONCLUSION**

## **12 DISCLAIMER**

## List Of Tables

### LIST OF TABLES

Table 1. Secondary Sources

Table 2. Primary Sources

Table 3. Market Value Comparison by Purity (2018 VS 2022 VS 2029) & (US\$ Million)

Table 4. Market Value Comparison by Application (2018 VS 2022 VS 2029) & (US\$ Million)

Table 5. Global Deuterium Oxide Production by Manufacturers (Kg) & (2018-2023)

Table 6. Global Deuterium Oxide Production Market Share by Manufacturers

Table 7. Global Deuterium Oxide Production Value by Manufacturers (US\$ Million) & (2018-2023)

Table 8. Global Deuterium Oxide Production Value Market Share by Manufacturers (2018-2023)

Table 9. Global Deuterium Oxide Average Price (US\$/Kg) of Key Manufacturers (2018-2023)

Table 10. Global Deuterium Oxide Industry Manufacturers Ranking, 2021 VS 2022 VS 2023

Table 11. Global Deuterium Oxide Manufacturers, Product Type & Application

Table 12. Global Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 13. Global Deuterium Oxide by Manufacturers Type (Tier 1, Tier 2, and Tier 3) & (based on the Production Value of 2022)

Table 14. Manufacturers Mergers & Acquisitions, Expansion Plans)

Table 15. Isowater Deuterium Oxide Company Information

Table 16. Isowater Business Overview

Table 17. Isowater Deuterium Oxide Production Capacity (Kg), Value (US\$ Million), Price (US\$/Kg) and Gross Margin (2018-2023)

Table 18. Isowater Product Portfolio

Table 19. Isowater Recent Developments

Table 20. Heavy Water Board (HWB) Deuterium Oxide Company Information

Table 21. Heavy Water Board (HWB) Business Overview

Table 22. Heavy Water Board (HWB) Deuterium Oxide Production Capacity (Kg), Value (US\$ Million), Price (US\$/Kg) and Gross Margin (2018-2023)

Table 23. Heavy Water Board (HWB) Product Portfolio

Table 24. Heavy Water Board (HWB) Recent Developments

Table 25. deutraMed Inc Deuterium Oxide Company Information

Table 26. deutraMed Inc Business Overview

Table 27. deutraMed Inc Deuterium Oxide Production Capacity (Kg), Value (US\$

Million), Price (US\$/Kg) and Gross Margin (2018-2023)

Table 28. deutraMed Inc Product Portfolio

Table 29. deutraMed Inc Recent Developments

Table 30. Qatran Complex Deuterium Oxide Company Information

Table 31. Qatran Complex Business Overview

Table 32. Qatran Complex Deuterium Oxide Production Capacity (Kg), Value (US\$ Million), Price (US\$/Kg) and Gross Margin (2018-2023)

Table 33. Qatran Complex Product Portfolio

Table 34. Qatran Complex Recent Developments

Table 35. Global Deuterium Oxide Production Comparison by Region: 2018 VS 2022 VS 2029 (Kg)

Table 36. Global Deuterium Oxide Production by Region (2018-2023) & (Kg)

Table 37. Global Deuterium Oxide Production Market Share by Region (2018-2023)

Table 38. Global Deuterium Oxide Production Forecast by Region (2024-2029) & (Kg)

Table 39. Global Deuterium Oxide Production Market Share Forecast by Region (2024-2029)

Table 40. Global Deuterium Oxide Production Value Comparison by Region: 2018 VS 2022 VS 2029 (US\$ Million)

Table 41. Global Deuterium Oxide Production Value by Region (2018-2023) & (US\$ Million)

Table 42. Global Deuterium Oxide Production Value Market Share by Region (2018-2023)

Table 43. Global Deuterium Oxide Production Value Forecast by Region (2024-2029) & (US\$ Million)

Table 44. Global Deuterium Oxide Production Value Market Share Forecast by Region (2024-2029)

Table 45. Global Deuterium Oxide Market Average Price (US\$/Kg) by Region (2018-2023)

Table 46. Global Deuterium Oxide Consumption Comparison by Region: 2018 VS 2022 VS 2029 (Kg)

Table 47. Global Deuterium Oxide Consumption by Region (2018-2023) & (Kg)

Table 48. Global Deuterium Oxide Consumption Market Share by Region (2018-2023)

Table 49. Global Deuterium Oxide Forecasted Consumption by Region (2024-2029) & (Kg)

Table 50. Global Deuterium Oxide Forecasted Consumption Market Share by Region (2024-2029)

Table 51. North America Deuterium Oxide Consumption Growth Rate by Country: 2018 VS 2022 VS 2029 (Kg)

Table 52. North America Deuterium Oxide Consumption by Country (2018-2023) & (Kg)

- Table 53. North America Deuterium Oxide Consumption by Country (2024-2029) & (Kg)
- Table 54. Europe Deuterium Oxide Consumption Growth Rate by Country: 2018 VS 2022 VS 2029 (Kg)
- Table 55. Europe Deuterium Oxide Consumption by Country (2018-2023) & (Kg)
- Table 56. Europe Deuterium Oxide Consumption by Country (2024-2029) & (Kg)
- Table 57. Asia Pacific Deuterium Oxide Consumption Growth Rate by Country: 2018 VS 2022 VS 2029 (Kg)
- Table 58. Asia Pacific Deuterium Oxide Consumption by Country (2018-2023) & (Kg)
- Table 59. Asia Pacific Deuterium Oxide Consumption by Country (2024-2029) & (Kg)
- Table 60. Latin America, Middle East & Africa Deuterium Oxide Consumption Growth Rate by Country: 2018 VS 2022 VS 2029 (Kg)
- Table 61. Latin America, Middle East & Africa Deuterium Oxide Consumption by Country (2018-2023) & (Kg)
- Table 62. Latin America, Middle East & Africa Deuterium Oxide Consumption by Country (2024-2029) & (Kg)
- Table 63. Global Deuterium Oxide Production by Purity (2018-2023) & (Kg)
- Table 64. Global Deuterium Oxide Production by Purity (2024-2029) & (Kg)
- Table 65. Global Deuterium Oxide Production Market Share by Purity (2018-2023)
- Table 66. Global Deuterium Oxide Production Market Share by Purity (2024-2029)
- Table 67. Global Deuterium Oxide Production Value by Purity (2018-2023) & (US\$ Million)
- Table 68. Global Deuterium Oxide Production Value by Purity (2024-2029) & (US\$ Million)
- Table 69. Global Deuterium Oxide Production Value Market Share by Purity (2018-2023)
- Table 70. Global Deuterium Oxide Production Value Market Share by Purity (2024-2029)
- Table 71. Global Deuterium Oxide Price by Purity (2018-2023) & (US\$/Kg)
- Table 72. Global Deuterium Oxide Price by Purity (2024-2029) & (US\$/Kg)
- Table 73. Global Deuterium Oxide Production by Application (2018-2023) & (Kg)
- Table 74. Global Deuterium Oxide Production by Application (2024-2029) & (Kg)
- Table 75. Global Deuterium Oxide Production Market Share by Application (2018-2023)
- Table 76. Global Deuterium Oxide Production Market Share by Application (2024-2029)
- Table 77. Global Deuterium Oxide Production Value by Application (2018-2023) & (US\$ Million)
- Table 78. Global Deuterium Oxide Production Value by Application (2024-2029) & (US\$ Million)
- Table 79. Global Deuterium Oxide Production Value Market Share by Application (2018-2023)

Table 80. Global Deuterium Oxide Production Value Market Share by Application (2024-2029)

Table 81. Global Deuterium Oxide Price by Application (2018-2023) & (US\$/Kg)

Table 82. Global Deuterium Oxide Price by Application (2024-2029) & (US\$/Kg)

Table 83. Key Raw Materials

Table 84. Raw Materials Key Suppliers

Table 85. Deuterium Oxide Distributors List

Table 86. Deuterium Oxide Customers List

Table 87. Deuterium Oxide Industry Trends

Table 88. Deuterium Oxide Industry Drivers

Table 89. Deuterium Oxide Industry Restraints

Table 90. Authors List of This Report



## List Of Figures

### LIST OF FIGURES

- Figure 1. Research Methodology
- Figure 2. Research Process
- Figure 3. Key Executives Interviewed
- Figure 4. Deuterium Oxide Product Picture
- Figure 5. Market Value Comparison by Purity (2018 VS 2022 VS 2029) & (US\$ Million)
- Figure 6. 0.999 Product Picture
- Figure 7. 0.998 Product Picture
- Figure 8. Deuterium Production Product Picture
- Figure 9. Deuterated Solvents Product Picture
- Figure 10. Nuclear Industry Product Picture
- Figure 11. Others Product Picture
- Figure 12. Global Deuterium Oxide Production Value (US\$ Million), 2018 VS 2022 VS 2029
- Figure 13. Global Deuterium Oxide Production Value (2018-2029) & (US\$ Million)
- Figure 14. Global Deuterium Oxide Production Capacity (2018-2029) & (Kg)
- Figure 15. Global Deuterium Oxide Production (2018-2029) & (Kg)
- Figure 16. Global Deuterium Oxide Average Price (US\$/Kg) & (2018-2029)
- Figure 17. Global Deuterium Oxide Key Manufacturers, Manufacturing Sites & Headquarters
- Figure 18. Global Deuterium Oxide Manufacturers, Date of Enter into This Industry
- Figure 19. Global Top 5 and 10 Deuterium Oxide Players Market Share by Production Value in 2022
- Figure 20. Manufacturers Type (Tier 1, Tier 2, and Tier 3): 2018 VS 2022
- Figure 21. Global Deuterium Oxide Production Comparison by Region: 2018 VS 2022 VS 2029 (Kg)
- Figure 22. Global Deuterium Oxide Production Market Share by Region: 2018 VS 2022 VS 2029
- Figure 23. Global Deuterium Oxide Production Value Comparison by Region: 2018 VS 2022 VS 2029 (US\$ Million)
- Figure 24. Global Deuterium Oxide Production Value Market Share by Region: 2018 VS 2022 VS 2029
- Figure 25. North America Deuterium Oxide Production Value (US\$ Million) Growth Rate (2018-2029)
- Figure 26. Europe Deuterium Oxide Production Value (US\$ Million) Growth Rate (2018-2029)

Figure 27. China Deuterium Oxide Production Value (US\$ Million) Growth Rate (2018-2029)

Figure 28. Japan Deuterium Oxide Production Value (US\$ Million) Growth Rate (2018-2029)

Figure 29. Global Deuterium Oxide Consumption Comparison by Region: 2018 VS 2022 VS 2029 (Kg)

Figure 30. Global Deuterium Oxide Consumption Market Share by Region: 2018 VS 2022 VS 2029

Figure 31. North America Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 32. North America Deuterium Oxide Consumption Market Share by Country (2018-2029)

Figure 33. United States Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 34. Canada Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 35. Europe Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 36. Europe Deuterium Oxide Consumption Market Share by Country (2018-2029)

Figure 37. Germany Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 38. France Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 39. U.K. Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 40. Italy Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 41. Netherlands Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 42. Asia Pacific Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 43. Asia Pacific Deuterium Oxide Consumption Market Share by Country (2018-2029)

Figure 44. China Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 45. Japan Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 46. South Korea Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 47. China Taiwan Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 48. Southeast Asia Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 49. India Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 50. Australia Deuterium Oxide Consumption and Growth Rate (2018-2029) &

(Kg)

Figure 51. Latin America, Middle East & Africa Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 52. Latin America, Middle East & Africa Deuterium Oxide Consumption Market Share by Country (2018-2029)

Figure 53. Mexico Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 54. Brazil Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 55. Turkey Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 56. GCC Countries Deuterium Oxide Consumption and Growth Rate (2018-2029) & (Kg)

Figure 57. Global Deuterium Oxide Production Market Share by Purity (2018-2029)

Figure 58. Global Deuterium Oxide Production Value Market Share by Purity (2018-2029)

Figure 59. Global Deuterium Oxide Price (US\$/Kg) by Purity (2018-2029)

Figure 60. Global Deuterium Oxide Production Market Share by Application (2018-2029)

Figure 61. Global Deuterium Oxide Production Value Market Share by Application (2018-2029)

Figure 62. Global Deuterium Oxide Price (US\$/Kg) by Application (2018-2029)

Figure 63. Deuterium Oxide Value Chain

Figure 64. Deuterium Oxide Production Mode & Process

Figure 65. Direct Comparison with Distribution Share

Figure 66. Distributors Profiles

Figure 67. Deuterium Oxide Industry Opportunities and Challenges

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