

Global Deuterium Oxide Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Deuterium Oxide market size was valued at USD 58 million in 2023 and is forecast to a readjusted size of USD 96.8 million by 2030 with a CAGR of 7.7% during review period.

Deuterium oxide, 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 H₂O and its chemical formula is D₂O. 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.

Global key players of Deuterium Oxide include Isowater, Cambridge Isotope Laboratories, Mesbah Energy, Heavy Water Board (HWB), etc. The top three players hold a share over 80%. North America is the largest producer of heavy water, holds a share over 76 percent. In terms of product type, Purity 99.8% is the largest segment, occupied for a share of 38%, And in terms of application, Deuterated NMR Solvents has a share about 40 percent.

The Global Info Research report includes an overview of the development of the Deuterium Oxide industry chain, the market status of Deuterated NMR Solvents (Purity 99%, Purity 99.8%), Semiconductor Industry (Purity 99%, Purity 99.8%), and key

enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Deuterium Oxide.

Regionally, the report analyzes the Deuterium Oxide markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Deuterium Oxide market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Deuterium Oxide market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Deuterium Oxide industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Kg), revenue generated, and market share of different by Purity (e.g., Purity 99%, Purity 99.8%).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Deuterium Oxide market.

Regional Analysis: The report involves examining the Deuterium Oxide market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Deuterium Oxide market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Deuterium Oxide:

Company Analysis: Report covers individual Deuterium Oxide manufacturers, suppliers,

and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Deuterium Oxide. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Deuterated NMR Solvents, Semiconductor Industry).

Technology Analysis: Report covers specific technologies relevant to Deuterium Oxide. It assesses the current state, advancements, and potential future developments in Deuterium Oxide areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Deuterium Oxide market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Deuterium Oxide market is split by Purity and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Purity, and by Application in terms of volume and value.

Market segment by Purity

Purity 99%

Purity 99.8%

Purity 99.9%

Market segment by Application

Deuterated NMR Solvents

Semiconductor Industry

OLED Industry

Pharmaceutical Industry

Others

Major players covered

Isowater

Cambridge Isotope Laboratories

Mesbah Energy

Heavy Water Board (HWB)

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Deuterium Oxide product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Deuterium Oxide, with price, sales, revenue and global market share of Deuterium Oxide from 2019 to 2024.

Chapter 3, the Deuterium Oxide competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Deuterium Oxide breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Purity and application, with sales market share and growth rate by purity, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Deuterium Oxide market forecast, by regions, purity and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Deuterium Oxide.

Chapter 14 and 15, to describe Deuterium Oxide sales channel, distributors, customers, research findings and conclusion.

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