

# Global Heavy Water (D20) Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global Heavy Water (D20) market size is expected to reach \$ 96.8 million by 2029, rising at a market growth of 7.7% CAGR during the forecast period (2023-2029).

Global key players of heavy water 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.

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 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.

This report studies the global Heavy Water (D20) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Heavy Water (D20), and provides market size (US\$ million) and Year-over-Year (YoY) Growth,

considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Heavy Water (D20) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Heavy Water (D20) total production and demand, 2018-2029, (Kg)

Global Heavy Water (D20) total production value, 2018-2029, (USD Million)

Global Heavy Water (D20) production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Kg)

Global Heavy Water (D20) consumption by region & country, CAGR, 2018-2029 & (Kg)

U.S. VS China: Heavy Water (D20) domestic production, consumption, key domestic manufacturers and share

Global Heavy Water (D20) production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Kg)

Global Heavy Water (D20) production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Kg)

Global Heavy Water (D20) production by Application production, value, CAGR, 2018-2029, (USD Million) & (Kg).

This reports profiles key players in the global Heavy Water (D20) market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Isowater, Cambridge Isotope Laboratories, Mesbah Energy and Heavy Water Board (HWB), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Heavy Water (D20) market.

## Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kg) and average price (US\$/Kg) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

## Global Heavy Water (D2O) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Heavy Water (D2O) Market, Segmentation by Type

Purity 99%

Purity 99.8%

Purity 99.9%

## Global Heavy Water (D2O) Market, Segmentation by Application

Deuterated NMR Solvents

Semiconductor Industry

OLED Industry

Pharmaceutical Industry

Others

#### Companies Profiled:

Isowater

Cambridge Isotope Laboratories

Mesbah Energy

Heavy Water Board (HWB)

#### Key Questions Answered

1. How big is the global Heavy Water (D20) market?
2. What is the demand of the global Heavy Water (D20) market?
3. What is the year over year growth of the global Heavy Water (D20) market?
4. What is the production and production value of the global Heavy Water (D20) market?
5. Who are the key producers in the global Heavy Water (D20) market?
6. What are the growth factors driving the market demand?

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