

Global Oxygen-18 Enriched Water Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Oxygen-18 Enriched Water market size is expected to reach \$ 196 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

Oxygen-18 Enriched Water is a stable isotope-enriched form of water in which the oxygen atom is enriched with the stable isotope oxygen-18 above its natural abundance. It is commonly represented by the chemical formula $H_2^{18}O$. Unlike radioactive isotopes, oxygen-18 is a naturally occurring stable isotope and does not emit radiation, making Oxygen-18 Enriched Water suitable for medical, scientific and industrial applications requiring high isotopic purity. Owing to its unique isotopic composition, it serves as an essential precursor material for fluorine-18 production, a stable isotope tracer in life science research, and an important reference material for isotope analysis and environmental studies. As a result, Oxygen-18 Enriched Water is recognized as one of the highest-value stable isotope products in the nuclear medicine and isotope industry.

In 2025, global sales of Oxygen-18 Enriched Water reached approximately 1,589 kg, with an average global market price of around US\$ 83/g. As a niche chemical, its global production capacity is low, and its gross profit margin is approximately 50%-80%.

This report studies the global Oxygen-18 Enriched Water production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Oxygen-18 Enriched Water and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Oxygen-18 Enriched Water that

contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Oxygen-18 Enriched Water total production and demand, 2021-2032, (kg)

Global Oxygen-18 Enriched Water total production value, 2021-2032, (USD Million)

Global Oxygen-18 Enriched Water production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Oxygen-18 Enriched Water consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Oxygen-18 Enriched Water domestic production, consumption, key domestic manufacturers and share

Global Oxygen-18 Enriched Water production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Oxygen-18 Enriched Water production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Oxygen-18 Enriched Water production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Oxygen-18 Enriched Water 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 Nippon Sanso, Rotem Industries, Cambridge Isotope Laboratories, Marshall Isotopes, Center of Molecular Research (CMR), Heavy Water Board, Mesbah Energy, Wo Isotope, Jiangsu Huayi Technology, Shanghai Research Institute of Chemical Industry, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Oxygen-18 Enriched Water market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/g) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Oxygen-18 Enriched Water Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Oxygen-18 Enriched Water Market, Segmentation by Type:

90-95% Abundance

95-99% Abundance

Other

Global Oxygen-18 Enriched Water Market, Segmentation by Isotopic Purity:

Standard Purity

Ultra-high Purity

Global Oxygen-18 Enriched Water Market, Segmentation by Grade:

PET Grade

Analytical Research Grade

Industrial Grade

Global Oxygen-18 Enriched Water Market, Segmentation by Application:

Nuclear Medicine

Life Sciences

Environmental Sciences

Analytical Sciences

Companies Profiled:

Nippon Sanso

Rotem Industries

Cambridge Isotope Laboratories

Marshall Isotopes

Center of Molecular Research (CMR)

Heavy Water Board

Mesbah Energy

Wo Isotope

Jiangsu Huayi Technology

Shanghai Research Institute of Chemical Industry

Key Questions Answered:

1. How big is the global Oxygen-18 Enriched Water market?
2. What is the demand of the global Oxygen-18 Enriched Water market?
3. What is the year over year growth of the global Oxygen-18 Enriched Water market?
4. What is the production and production value of the global Oxygen-18 Enriched Water market?
5. Who are the key producers in the global Oxygen-18 Enriched Water market?
6. What are the growth factors driving the market demand?

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