

Global Oxygen-18 Water Market Growth 2026-2032

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Abstracts

The global Oxygen-18 Water market size is predicted to grow from US\$ 140 million in 2025 to US\$ 203 million in 2032; it is expected to grow at a CAGR of 5.4% from 2026 to 2032.

Oxygen-18 Water is a stable isotope-labeled water in which the oxygen component is enriched with the stable isotope oxygen-18. It is commonly expressed as H₂¹⁸O, Water-¹⁸O or O-18 Water. Compared with ordinary water, its basic chemical behavior is similar, but the enriched oxygen isotope gives it high value as a nuclear target material, isotope tracer and analytical reagent. In the radiopharmaceutical industry, high-enrichment Oxygen-18 Water is mainly used as the liquid target material in cyclotrons to generate fluorine-18, which is then used to synthesize fluorine-18 labeled PET radiopharmaceuticals such as ¹⁸F-FDG.

The upstream raw materials and inputs of Oxygen-18 Water mainly include natural water or oxygen-containing feedstocks with natural oxygen isotope composition, high-purity water, oxygen or hydrogen related feed gases and utilities, isotope-enriched oxygen intermediates, purification consumables and high-cleanliness packaging materials. For PET and radiopharmaceutical applications, the product usually requires high oxygen-18 enrichment, low organic carbon, low ionic impurity, controlled conductivity and clean vial or bottle packaging. The downstream market is concentrated in PET radiopharmaceutical manufacturers, cyclotron centers, nuclear medicine departments, isotope research laboratories, pharmaceutical research institutions, life science laboratories and environmental isotope analysis institutions.

In 2025, global sales of Oxygen-18 Water reached approximately 2,051 kg, with an average global market price of around US\$ 70/g. As a niche chemical, its global production capacity is low, and its gross profit margin is approximately 50%-80%.

United States market for Oxygen-18 Water is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Oxygen-18 Water is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Oxygen-18 Water is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Oxygen-18 Water players cover Nippon Sanso, Rotem Industries, Cambridge Isotope Laboratories, Marshall Isotopes, Center of Molecular Research (CMR), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Oxygen-18 Water Industry Forecast" looks at past sales and reviews total world Oxygen-18 Water sales in 2025, providing a comprehensive analysis by region and market sector of projected Oxygen-18 Water sales for 2026 through 2032. With Oxygen-18 Water sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Oxygen-18 Water industry.

This Insight Report provides a comprehensive analysis of the global Oxygen-18 Water landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Oxygen-18 Water portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Oxygen-18 Water market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Oxygen-18 Water and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Oxygen-18 Water.

This report presents a comprehensive overview, market shares, and growth opportunities of Oxygen-18 Water market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Ultra-high Enrichment Grade (>98%)

High Enrichment Grade (95%-98%)

Low-to-Medium Enrichment Grade (<95%)

Segmentation by Grade:

PET Target Grade

Analytical Research Grade

Industrial Isotope Grade

Segmentation by Isotopic Composition Form:

???

???

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Segmentation by Application:

PET Radiopharmaceutical Production

Life Science and Metabolic Research

Environmental Hydrological Analysis

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Nippon Sanso

Rotem Industries

Cambridge Isotope Laboratories

Marshall Isotopes

Center of Molecular Research (CMR)

Heavy Water Board

Mesbah Energy

QuTope

Wo Isotope

Jiangsu Huayi Technology

Shanghai Research Institute of Chemical Industry

Key Questions Addressed in this Report

What is the 10-year outlook for the global Oxygen-18 Water market?

What factors are driving Oxygen-18 Water market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Oxygen-18 Water market opportunities vary by end market size?

How does Oxygen-18 Water break out by Type, by Application?

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