

# Global Oxygen-18 Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Oxygen-18 market size will reach 158.59 Million USD in 2025 and is projected to reach 221.08 Million USD by 2032, with a CAGR of 4.86% (2025-2032). Notably, the China Oxygen-18 market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

Oxygen-18 ( $^{18}\text{O}$ ) is a naturally occurring stable isotope of oxygen, distinguished by its atomic nucleus containing eight protons and ten neutrons, which is two more neutrons than the more common oxygen isotope, oxygen-16 ( $^{16}\text{O}$ ). Oxygen-18 is found in trace amounts in the Earth's atmosphere, water, and geological materials, and its presence is used in various scientific applications. One notable use is in the field of isotope geochemistry, where the ratio of oxygen-18 to oxygen-16 is measured to study past climate conditions, as the ratio can vary with temperature and other environmental factors. Additionally, oxygen-18 is employed in medical and scientific research, particularly in studies involving metabolic processes, stable isotope labeling, and radiocarbon dating calibration.

The major global manufacturers of Oxygen-18 include Nippon Sanso, Wo Isotope Co.,Ltd, Cambridge Isotope Laboratories, Rotem Industries, Center of Molecular Research, Jiangsu Huayi Technology, Shanghai Engineering Research Center, Marshall Isotopes, Heavy Water Board, Merck, etc. The global players competition

landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Oxygen-18. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Oxygen-18 market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Oxygen-18 market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Oxygen-18 industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Oxygen-18 Include:

Nippon Sanso

Wo Isotope Co.,Ltd

Cambridge Isotope Laboratories

Rotem Industries

Center of Molecular Research

Jiangsu Huayi Technology

Shanghai Engineering Research Center

Marshall Isotopes

Heavy Water Board

Merck

Oxygen-18 Product Segment Include:

90-95% Abundance

95-99% Abundance

Others

Oxygen-18 Product Application Include:

PET Reagent

Pharmaceutical Industry

Industrial Application

Others

## **Chapter Scope**

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