

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

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Abstracts

The global Oxygen-18 Water market size is expected to reach \$ 210 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

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%.

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

This report is a detailed and comprehensive analysis of the world market for Oxygen-18 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 Water that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Oxygen-18 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, QuTope, Wo Isotope, Jiangsu Huayi Technology, 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 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 Water Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Oxygen-18 Water Market, Segmentation by Type:

Ultra-high Enrichment Grade (?98%)

High Enrichment Grade (95%-98%)

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

Global Oxygen-18 Water Market, Segmentation by Grade:

PET Target Grade

Analytical Research Grade

Industrial Isotope Grade

Global Oxygen-18 Water Market, Segmentation by Isotopic Composition Form:

????18?

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Global Oxygen-18 Water Market, Segmentation by Application:

PET Radiopharmaceutical Production

Life Science and Metabolic Research

Environmental Hydrological Analysis

Other

Companies Profiled:

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 Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Oxygen-18 Water Introduction
- 1.2 World Oxygen-18 Water Supply & Forecast
 - 1.2.1 World Oxygen-18 Water Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Oxygen-18 Water Production (2021-2032)
 - 1.2.3 World Oxygen-18 Water Pricing Trends (2021-2032)
- 1.3 World Oxygen-18 Water Production by Region (Based on Production Site)
 - 1.3.1 World Oxygen-18 Water Production Value by Region (2021-2032)
 - 1.3.2 World Oxygen-18 Water Production by Region (2021-2032)
 - 1.3.3 World Oxygen-18 Water Average Price by Region (2021-2032)
 - 1.3.4 North America Oxygen-18 Water Production (2021-2032)
 - 1.3.5 Europe Oxygen-18 Water Production (2021-2032)
 - 1.3.6 China Oxygen-18 Water Production (2021-2032)
 - 1.3.7 Japan Oxygen-18 Water Production (2021-2032)
 - 1.3.8 Israel Oxygen-18 Water Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Oxygen-18 Water Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Oxygen-18 Water Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Oxygen-18 Water Demand (2021-2032)
- 2.2 World Oxygen-18 Water Consumption by Region
 - 2.2.1 World Oxygen-18 Water Consumption by Region (2021-2026)
 - 2.2.2 World Oxygen-18 Water Consumption Forecast by Region (2027-2032)
- 2.3 United States Oxygen-18 Water Consumption (2021-2032)
- 2.4 China Oxygen-18 Water Consumption (2021-2032)
- 2.5 Europe Oxygen-18 Water Consumption (2021-2032)
- 2.6 Japan Oxygen-18 Water Consumption (2021-2032)
- 2.7 South Korea Oxygen-18 Water Consumption (2021-2032)
- 2.8 ASEAN Oxygen-18 Water Consumption (2021-2032)
- 2.9 India Oxygen-18 Water Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Oxygen-18 Water Production Value by Manufacturer (2021-2026)

3.2 World Oxygen-18 Water Production by Manufacturer (2021-2026)

3.3 World Oxygen-18 Water Average Price by Manufacturer (2021-2026)

3.4 Oxygen-18 Water Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Oxygen-18 Water Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Oxygen-18 Water in 2025

3.5.3 Global Concentration Ratios (CR8) for Oxygen-18 Water in 2025

3.6 Oxygen-18 Water Market: Overall Company Footprint Analysis

3.6.1 Oxygen-18 Water Market: Region Footprint

3.6.2 Oxygen-18 Water Market: Company Product Type Footprint

3.6.3 Oxygen-18 Water Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Oxygen-18 Water Production Value Comparison

4.1.1 United States VS China: Oxygen-18 Water Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Oxygen-18 Water Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Oxygen-18 Water Production Comparison

4.2.1 United States VS China: Oxygen-18 Water Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Oxygen-18 Water Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Oxygen-18 Water Consumption Comparison

4.3.1 United States VS China: Oxygen-18 Water Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Oxygen-18 Water Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Oxygen-18 Water Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Oxygen-18 Water Manufacturers, Headquarters and

Production Site (States, Country)

4.4.2 United States Based Manufacturers Oxygen-18 Water Production Value (2021-2026)

4.4.3 United States Based Manufacturers Oxygen-18 Water Production (2021-2026)

4.5 China Based Oxygen-18 Water Manufacturers and Market Share

4.5.1 China Based Oxygen-18 Water Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Oxygen-18 Water Production Value (2021-2026)

4.5.3 China Based Manufacturers Oxygen-18 Water Production (2021-2026)

4.6 Rest of World Based Oxygen-18 Water Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Oxygen-18 Water Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Oxygen-18 Water Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Oxygen-18 Water Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Oxygen-18 Water Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Ultra-high Enrichment Grade (?98%)

5.2.2 High Enrichment Grade (95%-98%)

5.2.3 Low-to-Medium Enrichment Grade (?95%)

5.3 Market Segment by Type

5.3.1 World Oxygen-18 Water Production by Type (2021-2032)

5.3.2 World Oxygen-18 Water Production Value by Type (2021-2032)

5.3.3 World Oxygen-18 Water Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY GRADE

6.1 World Oxygen-18 Water Market Size Overview by Grade: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Grade

6.2.1 PET Target Grade

6.2.2 Analytical Research Grade

6.2.3 Industrial Isotope Grade

6.3 Market Segment by Grade

6.3.1 World Oxygen-18 Water Production by Grade (2021-2032)

6.3.2 World Oxygen-18 Water Production Value by Grade (2021-2032)

6.3.3 World Oxygen-18 Water Average Price by Grade (2021-2032)

7 MARKET ANALYSIS BY ISOTOPIC COMPOSITION FORM

7.1 World Oxygen-18 Water Market Size Overview by Isotopic Composition Form: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Isotopic Composition Form

7.2.1 ?????18?

7.2.2 ??????

7.2.3 ??

7.3 Market Segment by Isotopic Composition Form

7.3.1 World Oxygen-18 Water Production by Isotopic Composition Form (2021-2032)

7.3.2 World Oxygen-18 Water Production Value by Isotopic Composition Form (2021-2032)

7.3.3 World Oxygen-18 Water Average Price by Isotopic Composition Form (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Oxygen-18 Water Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 PET Radiopharmaceutical Production

8.2.2 Life Science and Metabolic Research

8.2.3 Environmental Hydrological Analysis

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Oxygen-18 Water Production by Application (2021-2032)

8.3.2 World Oxygen-18 Water Production Value by Application (2021-2032)

8.3.3 World Oxygen-18 Water Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Nippon Sanso

9.1.1 Nippon Sanso Details

9.1.2 Nippon Sanso Major Business

9.1.3 Nippon Sanso Oxygen-18 Water Product and Services

9.1.4 Nippon Sanso Oxygen-18 Water Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.1.5 Nippon Sanso Recent Developments/Updates
- 9.1.6 Nippon Sanso Competitive Strengths & Weaknesses
- 9.2 Rotem Industries
 - 9.2.1 Rotem Industries Details
 - 9.2.2 Rotem Industries Major Business
 - 9.2.3 Rotem Industries Oxygen-18 Water Product and Services
 - 9.2.4 Rotem Industries Oxygen-18 Water Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Rotem Industries Recent Developments/Updates
 - 9.2.6 Rotem Industries Competitive Strengths & Weaknesses
- 9.3 Cambridge Isotope Laboratories
 - 9.3.1 Cambridge Isotope Laboratories Details
 - 9.3.2 Cambridge Isotope Laboratories Major Business
 - 9.3.3 Cambridge Isotope Laboratories Oxygen-18 Water Product and Services
 - 9.3.4 Cambridge Isotope Laboratories Oxygen-18 Water Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Cambridge Isotope Laboratories Recent Developments/Updates
 - 9.3.6 Cambridge Isotope Laboratories Competitive Strengths & Weaknesses
- 9.4 Marshall Isotopes
 - 9.4.1 Marshall Isotopes Details
 - 9.4.2 Marshall Isotopes Major Business
 - 9.4.3 Marshall Isotopes Oxygen-18 Water Product and Services
 - 9.4.4 Marshall Isotopes Oxygen-18 Water Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Marshall Isotopes Recent Developments/Updates
 - 9.4.6 Marshall Isotopes Competitive Strengths & Weaknesses
- 9.5 Center of Molecular Research (CMR)
 - 9.5.1 Center of Molecular Research (CMR) Details
 - 9.5.2 Center of Molecular Research (CMR) Major Business
 - 9.5.3 Center of Molecular Research (CMR) Oxygen-18 Water Product and Services
 - 9.5.4 Center of Molecular Research (CMR) Oxygen-18 Water Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Center of Molecular Research (CMR) Recent Developments/Updates
 - 9.5.6 Center of Molecular Research (CMR) Competitive Strengths & Weaknesses
- 9.6 Heavy Water Board
 - 9.6.1 Heavy Water Board Details
 - 9.6.2 Heavy Water Board Major Business
 - 9.6.3 Heavy Water Board Oxygen-18 Water Product and Services
 - 9.6.4 Heavy Water Board Oxygen-18 Water Production, Price, Value, Gross Margin

and Market Share (2021-2026)

9.6.5 Heavy Water Board Recent Developments/Updates

9.6.6 Heavy Water Board Competitive Strengths & Weaknesses

9.7 Mesbah Energy

9.7.1 Mesbah Energy Details

9.7.2 Mesbah Energy Major Business

9.7.3 Mesbah Energy Oxygen-18 Water Product and Services

9.7.4 Mesbah Energy Oxygen-18 Water Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.7.5 Mesbah Energy Recent Developments/Updates

9.7.6 Mesbah Energy Competitive Strengths & Weaknesses

9.8 QuTope

9.8.1 QuTope Details

9.8.2 QuTope Major Business

9.8.3 QuTope Oxygen-18 Water Product and Services

9.8.4 QuTope Oxygen-18 Water Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.8.5 QuTope Recent Developments/Updates

9.8.6 QuTope Competitive Strengths & Weaknesses

9.9 Wo Isotope

9.9.1 Wo Isotope Details

9.9.2 Wo Isotope Major Business

9.9.3 Wo Isotope Oxygen-18 Water Product and Services

9.9.4 Wo Isotope Oxygen-18 Water Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.9.5 Wo Isotope Recent Developments/Updates

9.9.6 Wo Isotope Competitive Strengths & Weaknesses

9.10 Jiangsu Huayi Technology

9.10.1 Jiangsu Huayi Technology Details

9.10.2 Jiangsu Huayi Technology Major Business

9.10.3 Jiangsu Huayi Technology Oxygen-18 Water Product and Services

9.10.4 Jiangsu Huayi Technology Oxygen-18 Water Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.10.5 Jiangsu Huayi Technology Recent Developments/Updates

9.10.6 Jiangsu Huayi Technology Competitive Strengths & Weaknesses

9.11 Shanghai Research Institute of Chemical Industry

9.11.1 Shanghai Research Institute of Chemical Industry Details

9.11.2 Shanghai Research Institute of Chemical Industry Major Business

9.11.3 Shanghai Research Institute of Chemical Industry Oxygen-18 Water Product

and Services

9.11.4 Shanghai Research Institute of Chemical Industry Oxygen-18 Water Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Shanghai Research Institute of Chemical Industry Recent Developments/Updates

9.11.6 Shanghai Research Institute of Chemical Industry Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Oxygen-18 Water Industry Chain

10.2 Oxygen-18 Water Upstream Analysis

10.2.1 Oxygen-18 Water Core Raw Materials

10.2.2 Main Manufacturers of Oxygen-18 Water Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Oxygen-18 Water Production Mode

10.6 Oxygen-18 Water Procurement Model

10.7 Oxygen-18 Water Industry Sales Model and Sales Channels

10.7.1 Oxygen-18 Water Sales Model

10.7.2 Oxygen-18 Water Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Oxygen-18 Water Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Oxygen-18 Water Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Oxygen-18 Water Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Oxygen-18 Water Production Value Market Share by Region (2021-2026)
- Table 5. World Oxygen-18 Water Production Value Market Share by Region (2027-2032)
- Table 6. World Oxygen-18 Water Production by Region (2021-2026) & (kg)
- Table 7. World Oxygen-18 Water Production by Region (2027-2032) & (kg)
- Table 8. World Oxygen-18 Water Production Market Share by Region (2021-2026)
- Table 9. World Oxygen-18 Water Production Market Share by Region (2027-2032)
- Table 10. World Oxygen-18 Water Average Price by Region (2021-2026) & (US\$/g)
- Table 11. World Oxygen-18 Water Average Price by Region (2027-2032) & (US\$/g)
- Table 12. Oxygen-18 Water Major Market Trends
- Table 13. World Oxygen-18 Water Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (kg)
- Table 14. World Oxygen-18 Water Consumption by Region (2021-2026) & (kg)
- Table 15. World Oxygen-18 Water Consumption Forecast by Region (2027-2032) & (kg)
- Table 16. World Oxygen-18 Water Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Oxygen-18 Water Producers in 2025
- Table 18. World Oxygen-18 Water Production by Manufacturer (2021-2026) & (kg)
- Table 19. Production Market Share of Key Oxygen-18 Water Producers in 2025
- Table 20. World Oxygen-18 Water Average Price by Manufacturer (2021-2026) & (US\$/g)
- Table 21. Global Oxygen-18 Water Company Evaluation Quadrant
- Table 22. World Oxygen-18 Water Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Oxygen-18 Water Production Site of Key Manufacturer
- Table 24. Oxygen-18 Water Market: Company Product Type Footprint
- Table 25. Oxygen-18 Water Market: Company Product Application Footprint
- Table 26. Oxygen-18 Water Competitive Factors

Table 27. Oxygen-18 Water New Entrant and Capacity Expansion Plans
Table 28. Oxygen-18 Water Mergers & Acquisitions Activity
Table 29. United States VS China Oxygen-18 Water Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Oxygen-18 Water Production Comparison, (2021 & 2025 & 2032) & (kg)
Table 31. United States VS China Oxygen-18 Water Consumption Comparison, (2021 & 2025 & 2032) & (kg)
Table 32. United States Based Oxygen-18 Water Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Oxygen-18 Water Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Oxygen-18 Water Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Oxygen-18 Water Production (2021-2026) & (kg)
Table 36. United States Based Manufacturers Oxygen-18 Water Production Market Share (2021-2026)
Table 37. China Based Oxygen-18 Water Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Oxygen-18 Water Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Oxygen-18 Water Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Oxygen-18 Water Production, (2021-2026) & (kg)
Table 41. China Based Manufacturers Oxygen-18 Water Production Market Share (2021-2026)
Table 42. Rest of World Based Oxygen-18 Water Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Oxygen-18 Water Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Oxygen-18 Water Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Oxygen-18 Water Production, (2021-2026) & (kg)
Table 46. Rest of World Based Manufacturers Oxygen-18 Water Production Market Share (2021-2026)
Table 47. World Oxygen-18 Water Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Oxygen-18 Water Production by Type (2021-2026) & (kg)
Table 49. World Oxygen-18 Water Production by Type (2027-2032) & (kg)
Table 50. World Oxygen-18 Water Production Value by Type (2021-2026) & (USD Million)
Table 51. World Oxygen-18 Water Production Value by Type (2027-2032) & (USD Million)
Table 52. World Oxygen-18 Water Average Price by Type (2021-2026) & (US\$/g)
Table 53. World Oxygen-18 Water Average Price by Type (2027-2032) & (US\$/g)
Table 54. World Oxygen-18 Water Production Value by Grade, (USD Million), 2021 & 2025 & 2032
Table 55. World Oxygen-18 Water Production by Grade (2021-2026) & (kg)
Table 56. World Oxygen-18 Water Production by Grade (2027-2032) & (kg)
Table 57. World Oxygen-18 Water Production Value by Grade (2021-2026) & (USD Million)
Table 58. World Oxygen-18 Water Production Value by Grade (2027-2032) & (USD Million)
Table 59. World Oxygen-18 Water Average Price by Grade (2021-2026) & (US\$/g)
Table 60. World Oxygen-18 Water Average Price by Grade (2027-2032) & (US\$/g)
Table 61. World Oxygen-18 Water Production Value by Isotopic Composition Form, (USD Million), 2021 & 2025 & 2032
Table 62. World Oxygen-18 Water Production by Isotopic Composition Form (2021-2026) & (kg)
Table 63. World Oxygen-18 Water Production by Isotopic Composition Form (2027-2032) & (kg)
Table 64. World Oxygen-18 Water Production Value by Isotopic Composition Form (2021-2026) & (USD Million)
Table 65. World Oxygen-18 Water Production Value by Isotopic Composition Form (2027-2032) & (USD Million)
Table 66. World Oxygen-18 Water Average Price by Isotopic Composition Form (2021-2026) & (US\$/g)
Table 67. World Oxygen-18 Water Average Price by Isotopic Composition Form (2027-2032) & (US\$/g)
Table 68. World Oxygen-18 Water Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World Oxygen-18 Water Production by Application (2021-2026) & (kg)
Table 70. World Oxygen-18 Water Production by Application (2027-2032) & (kg)
Table 71. World Oxygen-18 Water Production Value by Application (2021-2026) & (USD Million)
Table 72. World Oxygen-18 Water Production Value by Application (2027-2032) & (USD Million)

Million)

Table 73. World Oxygen-18 Water Average Price by Application (2021-2026) & (US\$/g)

Table 74. World Oxygen-18 Water Average Price by Application (2027-2032) & (US\$/g)

Table 75. Nippon Sanso Basic Information, Manufacturing Base and Competitors

Table 76. Nippon Sanso Major Business

Table 77. Nippon Sanso Oxygen-18 Water Product and Services

Table 78. Nippon Sanso Oxygen-18 Water Production (kg), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Nippon Sanso Recent Developments/Updates

Table 80. Nippon Sanso Competitive Strengths & Weaknesses

Table 81. Rotem Industries Basic Information, Manufacturing Base and Competitors

Table 82. Rotem Industries Major Business

Table 83. Rotem Industries Oxygen-18 Water Product and Services

Table 84. Rotem Industries Oxygen-18 Water Production (kg), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Rotem Industries Recent Developments/Updates

Table 86. Rotem Industries Competitive Strengths & Weaknesses

Table 87. Cambridge Isotope Laboratories Basic Information, Manufacturing Base and Competitors

Table 88. Cambridge Isotope Laboratories Major Business

Table 89. Cambridge Isotope Laboratories Oxygen-18 Water Product and Services

Table 90. Cambridge Isotope Laboratories Oxygen-18 Water Production (kg), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Cambridge Isotope Laboratories Recent Developments/Updates

Table 92. Cambridge Isotope Laboratories Competitive Strengths & Weaknesses

Table 93. Marshall Isotopes Basic Information, Manufacturing Base and Competitors

Table 94. Marshall Isotopes Major Business

Table 95. Marshall Isotopes Oxygen-18 Water Product and Services

Table 96. Marshall Isotopes Oxygen-18 Water Production (kg), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Marshall Isotopes Recent Developments/Updates

Table 98. Marshall Isotopes Competitive Strengths & Weaknesses

Table 99. Center of Molecular Research (CMR) Basic Information, Manufacturing Base and Competitors

Table 100. Center of Molecular Research (CMR) Major Business

Table 101. Center of Molecular Research (CMR) Oxygen-18 Water Product and Services

Table 102. Center of Molecular Research (CMR) Oxygen-18 Water Production (kg), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 103. Center of Molecular Research (CMR) Recent Developments/Updates

Table 104. Center of Molecular Research (CMR) Competitive Strengths & Weaknesses

Table 105. Heavy Water Board Basic Information, Manufacturing Base and Competitors

Table 106. Heavy Water Board Major Business

Table 107. Heavy Water Board Oxygen-18 Water Product and Services

Table 108. Heavy Water Board Oxygen-18 Water Production (kg), Price (US\$/g),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Heavy Water Board Recent Developments/Updates

Table 110. Heavy Water Board Competitive Strengths & Weaknesses

Table 111. Mesbah Energy Basic Information, Manufacturing Base and Competitors

Table 112. Mesbah Energy Major Business

Table 113. Mesbah Energy Oxygen-18 Water Product and Services

Table 114. Mesbah Energy Oxygen-18 Water Production (kg), Price (US\$/g),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Mesbah Energy Recent Developments/Updates

Table 116. Mesbah Energy Competitive Strengths & Weaknesses

Table 117. QuTope Basic Information, Manufacturing Base and Competitors

Table 118. QuTope Major Business

Table 119. QuTope Oxygen-18 Water Product and Services

Table 120. QuTope Oxygen-18 Water Production (kg), Price (US\$/g), Production Value
(USD Million), Gross Margin and Market Share (2021-2026)

Table 121. QuTope Recent Developments/Updates

Table 122. QuTope Competitive Strengths & Weaknesses

Table 123. Wo Isotope Basic Information, Manufacturing Base and Competitors

Table 124. Wo Isotope Major Business

Table 125. Wo Isotope Oxygen-18 Water Product and Services

Table 126. Wo Isotope Oxygen-18 Water Production (kg), Price (US\$/g), Production
Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Wo Isotope Recent Developments/Updates

Table 128. Wo Isotope Competitive Strengths & Weaknesses

Table 129. Jiangsu Huayi Technology Basic Information, Manufacturing Base and
Competitors

Table 130. Jiangsu Huayi Technology Major Business

Table 131. Jiangsu Huayi Technology Oxygen-18 Water Product and Services

Table 132. Jiangsu Huayi Technology Oxygen-18 Water Production (kg), Price (US\$/g),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Jiangsu Huayi Technology Recent Developments/Updates

Table 134. Jiangsu Huayi Technology Competitive Strengths & Weaknesses

Table 135. Shanghai Research Institute of Chemical Industry Basic Information, Manufacturing Base and Competitors

Table 136. Shanghai Research Institute of Chemical Industry Major Business

Table 137. Shanghai Research Institute of Chemical Industry Oxygen-18 Water Product and Services

Table 138. Shanghai Research Institute of Chemical Industry Oxygen-18 Water Production (kg), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Shanghai Research Institute of Chemical Industry Recent Developments/Updates

Table 140. Shanghai Research Institute of Chemical Industry Competitive Strengths & Weaknesses

Table 141. Global Key Players of Oxygen-18 Water Upstream (Raw Materials)

Table 142. Global Oxygen-18 Water Typical Customers

Table 143. Oxygen-18 Water Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Oxygen-18 Water Picture

Figure 2. World Oxygen-18 Water Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Oxygen-18 Water Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Oxygen-18 Water Production (2021-2032) & (kg)

Figure 5. World Oxygen-18 Water Average Price (2021-2032) & (US\$/g)

Figure 6. World Oxygen-18 Water Production Value Market Share by Region (2021-2032)

Figure 7. World Oxygen-18 Water Production Market Share by Region (2021-2032)

Figure 8. North America Oxygen-18 Water Production (2021-2032) & (kg)

Figure 9. Europe Oxygen-18 Water Production (2021-2032) & (kg)

Figure 10. China Oxygen-18 Water Production (2021-2032) & (kg)

Figure 11. Japan Oxygen-18 Water Production (2021-2032) & (kg)

Figure 12. Israel Oxygen-18 Water Production (2021-2032) & (kg)

Figure 13. Oxygen-18 Water Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Oxygen-18 Water Consumption (2021-2032) & (kg)

Figure 16. World Oxygen-18 Water Consumption Market Share by Region (2021-2032)

Figure 17. United States Oxygen-18 Water Consumption (2021-2032) & (kg)

Figure 18. China Oxygen-18 Water Consumption (2021-2032) & (kg)

Figure 19. Europe Oxygen-18 Water Consumption (2021-2032) & (kg)

Figure 20. Japan Oxygen-18 Water Consumption (2021-2032) & (kg)

Figure 21. South Korea Oxygen-18 Water Consumption (2021-2032) & (kg)

Figure 22. ASEAN Oxygen-18 Water Consumption (2021-2032) & (kg)

Figure 23. India Oxygen-18 Water Consumption (2021-2032) & (kg)

Figure 24. Producer Shipments of Oxygen-18 Water by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Oxygen-18 Water Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Oxygen-18 Water Markets in 2025

Figure 27. United States VS China: Oxygen-18 Water Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Oxygen-18 Water Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Oxygen-18 Water Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Oxygen-18 Water Production Market Share 2025

Figure 31. China Based Manufacturers Oxygen-18 Water Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Oxygen-18 Water Production Market Share 2025

Figure 33. World Oxygen-18 Water Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Oxygen-18 Water Production Value Market Share by Type in 2025

Figure 35. Ultra-high Enrichment Grade (?98%)

Figure 36. High Enrichment Grade (95%-98%)

Figure 37. Low-to-Medium Enrichment Grade (?95%)

Figure 38. World Oxygen-18 Water Production Market Share by Type (2021-2032)

Figure 39. World Oxygen-18 Water Production Value Market Share by Type (2021-2032)

Figure 40. World Oxygen-18 Water Average Price by Type (2021-2032) & (US\$/g)

Figure 41. World Oxygen-18 Water Production Value by Grade, (USD Million), 2021 & 2025 & 2032

Figure 42. World Oxygen-18 Water Production Value Market Share by Grade in 2025

Figure 43. PET Target Grade

Figure 44. Analytical Research Grade

Figure 45. Industrial Isotope Grade

Figure 46. World Oxygen-18 Water Production Market Share by Grade (2021-2032)

Figure 47. World Oxygen-18 Water Production Value Market Share by Grade (2021-2032)

Figure 48. World Oxygen-18 Water Average Price by Grade (2021-2032) & (US\$/g)

Figure 49. World Oxygen-18 Water Production Value by Isotopic Composition Form, (USD Million), 2021 & 2025 & 2032

Figure 50. World Oxygen-18 Water Production Value Market Share by Isotopic Composition Form in 2025

Figure 51. ???18?

Figure 52. ?????

Figure 53. ??

Figure 54. World Oxygen-18 Water Production Market Share by Isotopic Composition Form (2021-2032)

Figure 55. World Oxygen-18 Water Production Value Market Share by Isotopic Composition Form (2021-2032)

Figure 56. World Oxygen-18 Water Average Price by Isotopic Composition Form (2021-2032) & (US\$/g)

Figure 57. World Oxygen-18 Water Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Oxygen-18 Water Production Value Market Share by Application in 2025

Figure 59. PET Radiopharmaceutical Production

Figure 60. Life Science and Metabolic Research

Figure 61. Environmental Hydrological Analysis

Figure 62. Other

Figure 63. World Oxygen-18 Water Production Market Share by Application (2021-2032)

Figure 64. World Oxygen-18 Water Production Value Market Share by Application (2021-2032)

Figure 65. World Oxygen-18 Water Average Price by Application (2021-2032) & (US\$/g)

Figure 66. Oxygen-18 Water Industry Chain

Figure 67. Oxygen-18 Water Procurement Model

Figure 68. Oxygen-18 Water Sales Model

Figure 69. Oxygen-18 Water Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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