

Global O-Phthalaldehyde Market Growth 2026-2032

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Abstracts

The global O-Phthalaldehyde market size is predicted to grow from US\$ 141 million in 2025 to US\$ 208 million in 2032; it is expected to grow at a CAGR of 5.3% from 2026 to 2032.

Ortho-phthalaldehyde (commonly abbreviated as OPA) is an aromatic dialdehyde fine chemical that typically appears as a yellow to pale-yellow crystalline powder or crystals. Characterized by high reactivity at its aldehyde groups, it serves as a raw material for high-level medical device disinfectants and is used in applications such as amino acid derivatization reagents for HPLC, fluorescence analysis reagents, pharmaceutical intermediates, and organic synthesis intermediates. In 2025, global sales volume reached approximately 1,020 metric tons, with an average unit price of around US\$141,290 per ton and a global capacity utilization rate of approximately 64.5%. Upstream industry participants include producers of ortho-xylene and basic aromatic chemicals, suppliers of oxidizing agents and catalysts, manufacturers of solvents and refining aids, fine chemical equipment makers, packaging material suppliers, and environmental treatment firms. Downstream sectors comprise manufacturers of high-level disinfectants and endoscope disinfection solutions, producers of medical device reprocessing consumables, reagent brands, pharmaceutical intermediate companies, analytical testing laboratories, research institutions, and organic synthesis service providers; the industry's average gross profit margin is approximately 38.6%. The cost structure breaks down as follows: basic aromatic raw materials (approx. 34%), oxidizing agents and catalysts (12%), solvents and processing aids (8%), energy and labor (10%), refining, crystallization, and drying (9%), testing and quality control (7%), and environmental treatment... Cost components include raw materials (approx. 6%), packaging, warehousing, and logistics (approx. 6%), equipment depreciation and maintenance (approx. 5%), and other expenses (approx. 3%). The demand profile encompasses raw materials for high-level disinfectants, formulations for endoscope disinfectants, HPLC amino acid derivatization reagents, fluorescence analysis reagents,

pharmaceutical intermediates, custom organic synthesis, high-purity reagents in small packaging, and stable supplies of industrial-grade reagents in bulk packaging. Downstream clients include manufacturers of medical disinfectants, companies producing endoscope cleaning and disinfection equipment and consumables, suppliers for hospital sterile processing departments, reagent brands, pharmaceutical R&D firms, pharmaceutical intermediate factories, third-party testing agencies, academic and research institutions, and fine chemical trading channels. Business opportunities are driven by policy factors such as stricter hospital infection control requirements, tighter regulations on endoscope cleaning and disinfection, enhanced quality oversight for pharmaceuticals and medical devices, upgraded environmental compliance standards for fine chemicals, and the demand for domestic high-purity reagents as well as by technological innovations, including optimized selective oxidation processes, low-impurity purification, light- and moisture-resistant packaging, HPLC-grade purity control, storage stability (low moisture content), and continuous refining technologies. Shifts in consumer demand are reflected in a transition from purchasing standard industrial-grade products to comprehensive procurement that prioritizes high purity, low levels of individual impurities, batch-to-batch consistency, complete documentation, supply traceability, and suitability for medical disinfection and analytical testing applications.

o-Phthalaldehyde (OPA) is a typical low-volume, high-value-added fine chemical. With a projected global sales volume of approximately 620 tons in 2025, the overall market scale is modest; however, it serves specialized applications and enjoys strong customer loyalty, driven primarily by high-level disinfection of medical devices, HPLC analysis, fluorescence-based biochemical analysis, pharmaceutical intermediates, and organic synthesis. On the supply side, Chinese enterprises possess cost and volume advantages in industrial-grade and pharmaceutical-intermediate-grade products, whereas international reagent brands dominate the high-unit-price market segments requiring high purity, small packaging, laboratory distribution channels, and comprehensive quality documentation. Consequently, industry competition is not based solely on production capacity but is stratified by product grade, customer certification, channel coverage, and documentation systems. On the demand side, factors such as the rising volume of endoscopic procedures, stricter infection control standards in medical institutions, stable demand for laboratory testing, and the growth of pharmaceutical R&D outsourcing provide a relatively solid foundation for OPA demand; conversely, factors such as regulations on end-use disinfectants, safety assessments, hospital procurement cost controls, and the availability of alternatives like glutaraldehyde continue to constrain rapid volume expansion. Over the next two to five years, standard industrial-grade OPA will likely remain subject to price competition among Chinese suppliers, whereas higher profit margins will be found in HPLC-grade,

pharmaceutical-grade, and low-impurity custom-grade products, as well as in stable supplies of large-format packaging. Enterprises possessing capabilities in process scale-up, impurity control, light- and moisture-resistant packaging, stable export documentation, and customer certification for medical disinfectants will be better positioned to secure high-value-added orders. Overall, while the OPA market is unlikely to experience explosive growth, it is expected to maintain steady expansion driven by the standardization of medical disinfection, the normalization of analytical testing, and the domestic substitution of fine chemicals; the focus of industry competition will gradually shift from low-price supply to product quality stability, regulatory compliance documentation, delivery reliability, and the ability to adapt to specific customer formulations.

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

This Insight Report provides a comprehensive analysis of the global O-Phthalaldehyde 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 O-Phthalaldehyde portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global O-Phthalaldehyde market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for O-Phthalaldehyde 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 O-Phthalaldehyde.

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

Segmentation by Type:

Above 99%

Above 98%

Segmentation by Grade:

Industrial Grade

Pharmaceutical Intermediate Grade

Other

Segmentation by Packaging:

Small-Pack Type

Industrial Packaging Type

Other

Segmentation by Application:

Pharmaceutical Intermediate

OPA Disinfectant

Chemical Analytical Reagents

Others

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.

Beijing Century Richap Chemistry Co., Ltd. (CN)

Henan Wanxiang Chemical Industry Co., Ltd. (CN)

Gaoyou Gaoyuan Auxiliary Co., Ltd. (CN)

Jinan Finer Chemical Co., Ltd. (CN)

Shodhana Laboratories Ltd. (IN)

Capot Chemical Co., Ltd. (CN)

Chemodex AG (CH)

Shandong Qianlihong Biotechnology Co., Ltd. (CN)

Nanjing Zeyou New Material Technology Co., Ltd. (CN)

Hubei Bojie Biotechnology Co., Ltd. (CN)

Hangzhou Hairui Chemical Co., Ltd. (CN)

Key Questions Addressed in this Report

What is the 10-year outlook for the global O-Phthalaldehyde market?

What factors are driving O-Phthalaldehyde market growth, globally and by region?

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

How do O-Phthalaldehyde market opportunities vary by end market size?

How does O-Phthalaldehyde break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global O-Phthalaldehyde Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for O-Phthalaldehyde by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for O-Phthalaldehyde by Country/Region, 2021, 2025 & 2032
- 2.2 O-Phthalaldehyde Segment by Type
 - 2.2.1 Above 99%
 - 2.2.2 Above 98%
 - 2.2.3 O-Phthalaldehyde Sales by Type
 - 2.2.3.1 Global O-Phthalaldehyde Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global O-Phthalaldehyde Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global O-Phthalaldehyde Sale Price by Type (2021-2026)
- 2.3 O-Phthalaldehyde Segment by Grade
 - 2.3.1 Industrial Grade
 - 2.3.2 Pharmaceutical Intermediate Grade
 - 2.3.3 Other
 - 2.3.4 O-Phthalaldehyde Sales by Grade
 - 2.3.4.1 Global O-Phthalaldehyde Sales Market Share by Grade (2021-2026)
 - 2.3.4.2 Global O-Phthalaldehyde Revenue and Market Share by Grade (2021-2026)
 - 2.3.4.3 Global O-Phthalaldehyde Sale Price by Grade (2021-2026)
- 2.4 O-Phthalaldehyde Segment by Packaging
 - 2.4.1 Small-Pack Type
 - 2.4.2 Industrial Packaging Type

2.4.3 Other

2.4.4 O-Phthalaldehyde Sales by Packaging

2.4.4.1 Global O-Phthalaldehyde Sales Market Share by Packaging (2021-2026)

2.4.4.2 Global O-Phthalaldehyde Revenue and Market Share by Packaging (2021-2026)

2.4.4.3 Global O-Phthalaldehyde Sale Price by Packaging (2021-2026)

2.5 O-Phthalaldehyde Segment by Application

2.5.1 Pharmaceutical Intermediate

2.5.2 OPA Disinfectant

2.5.3 Chemical Analytical Reagents

2.5.4 Others

2.5.5 O-Phthalaldehyde Sales by Application

2.5.5.1 Global O-Phthalaldehyde Sale Market Share by Application (2021-2026)

2.5.5.2 Global O-Phthalaldehyde Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global O-Phthalaldehyde Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global O-Phthalaldehyde Breakdown Data by Company

3.1.1 Global O-Phthalaldehyde Annual Sales by Company (2021-2026)

3.1.2 Global O-Phthalaldehyde Sales Market Share by Company (2021-2026)

3.2 Global O-Phthalaldehyde Annual Revenue by Company (2021-2026)

3.2.1 Global O-Phthalaldehyde Revenue by Company (2021-2026)

3.2.2 Global O-Phthalaldehyde Revenue Market Share by Company (2021-2026)

3.3 Global O-Phthalaldehyde Sale Price by Company

3.4 Key Manufacturers O-Phthalaldehyde Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers O-Phthalaldehyde Product Location Distribution

3.4.2 Players O-Phthalaldehyde Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR O-PHTHALALDEHYDE BY GEOGRAPHIC REGION

- 4.1 World Historic O-Phthalaldehyde Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global O-Phthalaldehyde Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global O-Phthalaldehyde Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic O-Phthalaldehyde Market Size by Country/Region (2021-2026)
 - 4.2.1 Global O-Phthalaldehyde Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global O-Phthalaldehyde Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas O-Phthalaldehyde Sales Growth
- 4.4 APAC O-Phthalaldehyde Sales Growth
- 4.5 Europe O-Phthalaldehyde Sales Growth
- 4.6 Middle East & Africa O-Phthalaldehyde Sales Growth

5 AMERICAS

- 5.1 Americas O-Phthalaldehyde Sales by Country
 - 5.1.1 Americas O-Phthalaldehyde Sales by Country (2021-2026)
 - 5.1.2 Americas O-Phthalaldehyde Revenue by Country (2021-2026)
- 5.2 Americas O-Phthalaldehyde Sales by Type (2021-2026)
- 5.3 Americas O-Phthalaldehyde Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC O-Phthalaldehyde Sales by Region
 - 6.1.1 APAC O-Phthalaldehyde Sales by Region (2021-2026)
 - 6.1.2 APAC O-Phthalaldehyde Revenue by Region (2021-2026)
- 6.2 APAC O-Phthalaldehyde Sales by Type (2021-2026)
- 6.3 APAC O-Phthalaldehyde Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

7.1 Europe O-Phthalaldehyde by Country

7.1.1 Europe O-Phthalaldehyde Sales by Country (2021-2026)

7.1.2 Europe O-Phthalaldehyde Revenue by Country (2021-2026)

7.2 Europe O-Phthalaldehyde Sales by Type (2021-2026)

7.3 Europe O-Phthalaldehyde Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa O-Phthalaldehyde by Country

8.1.1 Middle East & Africa O-Phthalaldehyde Sales by Country (2021-2026)

8.1.2 Middle East & Africa O-Phthalaldehyde Revenue by Country (2021-2026)

8.2 Middle East & Africa O-Phthalaldehyde Sales by Type (2021-2026)

8.3 Middle East & Africa O-Phthalaldehyde Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of O-Phthalaldehyde

10.3 Manufacturing Process Analysis of O-Phthalaldehyde

10.4 Industry Chain Structure of O-Phthalaldehyde

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 O-Phthalaldehyde Distributors

11.3 O-Phthalaldehyde Customer

12 WORLD FORECAST REVIEW FOR O-PHTHALALDEHYDE BY GEOGRAPHIC REGION

12.1 Global O-Phthalaldehyde Market Size Forecast by Region

12.1.1 Global O-Phthalaldehyde Forecast by Region (2027-2032)

12.1.2 Global O-Phthalaldehyde Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global O-Phthalaldehyde Forecast by Type (2027-2032)

12.7 Global O-Phthalaldehyde Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Beijing Century Richap Chemistry Co., Ltd. (CN)

13.1.1 Beijing Century Richap Chemistry Co., Ltd. (CN) Company Information

13.1.2 Beijing Century Richap Chemistry Co., Ltd. (CN) O-Phthalaldehyde Product Portfolios and Specifications

13.1.3 Beijing Century Richap Chemistry Co., Ltd. (CN) O-Phthalaldehyde Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Beijing Century Richap Chemistry Co., Ltd. (CN) Main Business Overview

13.1.5 Beijing Century Richap Chemistry Co., Ltd. (CN) Latest Developments

13.2 Henan Wanxiang Chemical Industry Co., Ltd. (CN)

13.2.1 Henan Wanxiang Chemical Industry Co., Ltd. (CN) Company Information

13.2.2 Henan Wanxiang Chemical Industry Co., Ltd. (CN) O-Phthalaldehyde Product Portfolios and Specifications

13.2.3 Henan Wanxiang Chemical Industry Co., Ltd. (CN) O-Phthalaldehyde Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Henan Wanxiang Chemical Industry Co., Ltd. (CN) Main Business Overview

13.2.5 Henan Wanxiang Chemical Industry Co., Ltd. (CN) Latest Developments

13.3 Gaoyou Gaoyuan Auxiliary Co., Ltd. (CN)

- 13.3.1 Gaoyou Gaoyuan Auxiliary Co., Ltd. (CN) Company Information
- 13.3.2 Gaoyou Gaoyuan Auxiliary Co., Ltd. (CN) O-Phthalaldehyde Product Portfolios and Specifications
- 13.3.3 Gaoyou Gaoyuan Auxiliary Co., Ltd. (CN) O-Phthalaldehyde Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 Gaoyou Gaoyuan Auxiliary Co., Ltd. (CN) Main Business Overview
- 13.3.5 Gaoyou Gaoyuan Auxiliary Co., Ltd. (CN) Latest Developments
- 13.4 Jinan Finer Chemical Co., Ltd. (CN)
 - 13.4.1 Jinan Finer Chemical Co., Ltd. (CN) Company Information
 - 13.4.2 Jinan Finer Chemical Co., Ltd. (CN) O-Phthalaldehyde Product Portfolios and Specifications
 - 13.4.3 Jinan Finer Chemical Co., Ltd. (CN) O-Phthalaldehyde Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Jinan Finer Chemical Co., Ltd. (CN) Main Business Overview
 - 13.4.5 Jinan Finer Chemical Co., Ltd. (CN) Latest Developments
- 13.5 Shodhana Laboratories Ltd. (IN)
 - 13.5.1 Shodhana Laboratories Ltd. (IN) Company Information
 - 13.5.2 Shodhana Laboratories Ltd. (IN) O-Phthalaldehyde Product Portfolios and Specifications
 - 13.5.3 Shodhana Laboratories Ltd. (IN) O-Phthalaldehyde Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Shodhana Laboratories Ltd. (IN) Main Business Overview
 - 13.5.5 Shodhana Laboratories Ltd. (IN) Latest Developments
- 13.6 Capot Chemical Co., Ltd. (CN)
 - 13.6.1 Capot Chemical Co., Ltd. (CN) Company Information
 - 13.6.2 Capot Chemical Co., Ltd. (CN) O-Phthalaldehyde Product Portfolios and Specifications
 - 13.6.3 Capot Chemical Co., Ltd. (CN) O-Phthalaldehyde Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Capot Chemical Co., Ltd. (CN) Main Business Overview
 - 13.6.5 Capot Chemical Co., Ltd. (CN) Latest Developments
- 13.7 Chemodex AG (CH)
 - 13.7.1 Chemodex AG (CH) Company Information
 - 13.7.2 Chemodex AG (CH) O-Phthalaldehyde Product Portfolios and Specifications
 - 13.7.3 Chemodex AG (CH) O-Phthalaldehyde Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Chemodex AG (CH) Main Business Overview
 - 13.7.5 Chemodex AG (CH) Latest Developments
- 13.8 Shandong Qianlihong Biotechnology Co., Ltd. (CN)

- 13.8.1 Shandong Qianlihong Biotechnology Co., Ltd. (CN) Company Information
- 13.8.2 Shandong Qianlihong Biotechnology Co., Ltd. (CN) O-Phthalaldehyde Product Portfolios and Specifications
- 13.8.3 Shandong Qianlihong Biotechnology Co., Ltd. (CN) O-Phthalaldehyde Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.8.4 Shandong Qianlihong Biotechnology Co., Ltd. (CN) Main Business Overview
- 13.8.5 Shandong Qianlihong Biotechnology Co., Ltd. (CN) Latest Developments
- 13.9 Nanjing Zeyou New Material Technology Co., Ltd. (CN)
 - 13.9.1 Nanjing Zeyou New Material Technology Co., Ltd. (CN) Company Information
 - 13.9.2 Nanjing Zeyou New Material Technology Co., Ltd. (CN) O-Phthalaldehyde Product Portfolios and Specifications
 - 13.9.3 Nanjing Zeyou New Material Technology Co., Ltd. (CN) O-Phthalaldehyde Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Nanjing Zeyou New Material Technology Co., Ltd. (CN) Main Business Overview
 - 13.9.5 Nanjing Zeyou New Material Technology Co., Ltd. (CN) Latest Developments
- 13.10 Hubei Bojie Biotechnology Co., Ltd. (CN)
 - 13.10.1 Hubei Bojie Biotechnology Co., Ltd. (CN) Company Information
 - 13.10.2 Hubei Bojie Biotechnology Co., Ltd. (CN) O-Phthalaldehyde Product Portfolios and Specifications
 - 13.10.3 Hubei Bojie Biotechnology Co., Ltd. (CN) O-Phthalaldehyde Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Hubei Bojie Biotechnology Co., Ltd. (CN) Main Business Overview
 - 13.10.5 Hubei Bojie Biotechnology Co., Ltd. (CN) Latest Developments
- 13.11 Hangzhou Hairui Chemical Co., Ltd. (CN)
 - 13.11.1 Hangzhou Hairui Chemical Co., Ltd. (CN) Company Information
 - 13.11.2 Hangzhou Hairui Chemical Co., Ltd. (CN) O-Phthalaldehyde Product Portfolios and Specifications
 - 13.11.3 Hangzhou Hairui Chemical Co., Ltd. (CN) O-Phthalaldehyde Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Hangzhou Hairui Chemical Co., Ltd. (CN) Main Business Overview
 - 13.11.5 Hangzhou Hairui Chemical Co., Ltd. (CN) Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. O-Phthalaldehyde Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. O-Phthalaldehyde Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Above 99%

Table 4. Major Players of Above 98%

Table 5. Global O-Phthalaldehyde Sales by Type (2021-2026) & (Tons)

Table 6. Global O-Phthalaldehyde Sales Market Share by Type (2021-2026)

Table 7. Global O-Phthalaldehyde Revenue by Type (2021-2026) & (\$ million)

Table 8. Global O-Phthalaldehyde Revenue Market Share by Type (2021-2026)

Table 9. Global O-Phthalaldehyde Sale Price by Type (2021-2026) & (US\$/Ton)

Table 10. Major Players of Industrial Grade

Table 11. Major Players of Pharmaceutical Intermediate Grade

Table 12. Major Players of Other

Table 13. Global O-Phthalaldehyde Sales by Grade (2021-2026) & (Tons)

Table 14. Global O-Phthalaldehyde Sales Market Share by Grade (2021-2026)

Table 15. Global O-Phthalaldehyde Revenue by Grade (2021-2026) & (\$ million)

Table 16. Global O-Phthalaldehyde Revenue Market Share by Grade (2021-2026)

Table 17. Global O-Phthalaldehyde Sale Price by Grade (2021-2026) & (US\$/Ton)

Table 18. Major Players of Small-Pack Type

Table 19. Major Players of Industrial Packaging Type

Table 20. Major Players of Other

Table 21. Global O-Phthalaldehyde Sales by Packaging (2021-2026) & (Tons)

Table 22. Global O-Phthalaldehyde Sales Market Share by Packaging (2021-2026)

Table 23. Global O-Phthalaldehyde Revenue by Packaging (2021-2026) & (\$ million)

Table 24. Global O-Phthalaldehyde Revenue Market Share by Packaging (2021-2026)

Table 25. Global O-Phthalaldehyde Sale Price by Packaging (2021-2026) & (US\$/Ton)

Table 26. Global O-Phthalaldehyde Sale by Application (2021-2026) & (Tons)

Table 27. Global O-Phthalaldehyde Sale Market Share by Application (2021-2026)

Table 28. Global O-Phthalaldehyde Revenue by Application (2021-2026) & (\$ million)

Table 29. Global O-Phthalaldehyde Revenue Market Share by Application (2021-2026)

Table 30. Global O-Phthalaldehyde Sale Price by Application (2021-2026) & (US\$/Ton)

Table 31. Global O-Phthalaldehyde Sales by Company (2021-2026) & (Tons)

Table 32. Global O-Phthalaldehyde Sales Market Share by Company (2021-2026)

Table 33. Global O-Phthalaldehyde Revenue by Company (2021-2026) & (\$ millions)

Table 34. Global O-Phthalaldehyde Revenue Market Share by Company (2021-2026)

Table 35. Global O-Phthalaldehyde Sale Price by Company (2021-2026) & (US\$/Ton)

Table 36. Key Manufacturers O-Phthalaldehyde Producing Area Distribution and Sales Area

Table 37. Players O-Phthalaldehyde Products Offered

Table 38. O-Phthalaldehyde Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 39. New Products and Potential Entrants

Table 40. Market M&A Activity & Strategy

Table 41. Global O-Phthalaldehyde Sales by Geographic Region (2021-2026) & (Tons)

Table 42. Global O-Phthalaldehyde Sales Market Share Geographic Region (2021-2026)

Table 43. Global O-Phthalaldehyde Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 44. Global O-Phthalaldehyde Revenue Market Share by Geographic Region (2021-2026)

Table 45. Global O-Phthalaldehyde Sales by Country/Region (2021-2026) & (Tons)

Table 46. Global O-Phthalaldehyde Sales Market Share by Country/Region (2021-2026)

Table 47. Global O-Phthalaldehyde Revenue by Country/Region (2021-2026) & (\$ millions)

Table 48. Global O-Phthalaldehyde Revenue Market Share by Country/Region (2021-2026)

Table 49. Americas O-Phthalaldehyde Sales by Country (2021-2026) & (Tons)

Table 50. Americas O-Phthalaldehyde Sales Market Share by Country (2021-2026)

Table 51. Americas O-Phthalaldehyde Revenue by Country (2021-2026) & (\$ millions)

Table 52. Americas O-Phthalaldehyde Sales by Type (2021-2026) & (Tons)

Table 53. Americas O-Phthalaldehyde Sales by Application (2021-2026) & (Tons)

Table 54. APAC O-Phthalaldehyde Sales by Region (2021-2026) & (Tons)

Table 55. APAC O-Phthalaldehyde Sales Market Share by Region (2021-2026)

Table 56. APAC O-Phthalaldehyde Revenue by Region (2021-2026) & (\$ millions)

Table 57. APAC O-Phthalaldehyde Sales by Type (2021-2026) & (Tons)

Table 58. APAC O-Phthalaldehyde Sales by Application (2021-2026) & (Tons)

Table 59. Europe O-Phthalaldehyde Sales by Country (2021-2026) & (Tons)

Table 60. Europe O-Phthalaldehyde Revenue by Country (2021-2026) & (\$ millions)

Table 61. Europe O-Phthalaldehyde Sales by Type (2021-2026) & (Tons)

Table 62. Europe O-Phthalaldehyde Sales by Application (2021-2026) & (Tons)

Table 63. Middle East & Africa O-Phthalaldehyde Sales by Country (2021-2026) & (Tons)

Table 64. Middle East & Africa O-Phthalaldehyde Revenue Market Share by Country (2021-2026)

Table 65. Middle East & Africa O-Phthalaldehyde Sales by Type (2021-2026) & (Tons)
Table 66. Middle East & Africa O-Phthalaldehyde Sales by Application (2021-2026) & (Tons)
Table 67. Key Market Drivers & Growth Opportunities of O-Phthalaldehyde
Table 68. Key Market Challenges & Risks of O-Phthalaldehyde
Table 69. Key Industry Trends of O-Phthalaldehyde
Table 70. O-Phthalaldehyde Raw Material
Table 71. Key Suppliers of Raw Materials
Table 72. O-Phthalaldehyde Distributors List
Table 73. O-Phthalaldehyde Customer List
Table 74. Global O-Phthalaldehyde Sales Forecast by Region (2027-2032) & (Tons)
Table 75. Global O-Phthalaldehyde Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 76. Americas O-Phthalaldehyde Sales Forecast by Country (2027-2032) & (Tons)
Table 77. Americas O-Phthalaldehyde Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 78. APAC O-Phthalaldehyde Sales Forecast by Region (2027-2032) & (Tons)
Table 79. APAC O-Phthalaldehyde Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 80. Europe O-Phthalaldehyde Sales Forecast by Country (2027-2032) & (Tons)
Table 81. Europe O-Phthalaldehyde Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 82. Middle East & Africa O-Phthalaldehyde Sales Forecast by Country (2027-2032) & (Tons)
Table 83. Middle East & Africa O-Phthalaldehyde Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 84. Global O-Phthalaldehyde Sales Forecast by Type (2027-2032) & (Tons)
Table 85. Global O-Phthalaldehyde Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 86. Global O-Phthalaldehyde Sales Forecast by Application (2027-2032) & (Tons)
Table 87. Global O-Phthalaldehyde Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 88. Beijing Century Richap Chemistry Co., Ltd. (CN) Basic Information, O-Phthalaldehyde Manufacturing Base, Sales Area and Its Competitors
Table 89. Beijing Century Richap Chemistry Co., Ltd. (CN) O-Phthalaldehyde Product Portfolios and Specifications
Table 90. Beijing Century Richap Chemistry Co., Ltd. (CN) O-Phthalaldehyde Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 91. Beijing Century Richap Chemistry Co., Ltd. (CN) Main Business

Table 92. Beijing Century Richap Chemistry Co., Ltd. (CN) Latest Developments
Table 93. Henan Wanxiang Chemical Industry Co., Ltd. (CN) Basic Information, O-Phthalaldehyde Manufacturing Base, Sales Area and Its Competitors
Table 94. Henan Wanxiang Chemical Industry Co., Ltd. (CN) O-Phthalaldehyde Product Portfolios and Specifications
Table 95. Henan Wanxiang Chemical Industry Co., Ltd. (CN) O-Phthalaldehyde Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 96. Henan Wanxiang Chemical Industry Co., Ltd. (CN) Main Business
Table 97. Henan Wanxiang Chemical Industry Co., Ltd. (CN) Latest Developments
Table 98. Gaoyou Gaoyuan Auxiliary Co., Ltd. (CN) Basic Information, O-Phthalaldehyde Manufacturing Base, Sales Area and Its Competitors
Table 99. Gaoyou Gaoyuan Auxiliary Co., Ltd. (CN) O-Phthalaldehyde Product Portfolios and Specifications
Table 100. Gaoyou Gaoyuan Auxiliary Co., Ltd. (CN) O-Phthalaldehyde Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 101. Gaoyou Gaoyuan Auxiliary Co., Ltd. (CN) Main Business
Table 102. Gaoyou Gaoyuan Auxiliary Co., Ltd. (CN) Latest Developments
Table 103. Jinan Finer Chemical Co., Ltd. (CN) Basic Information, O-Phthalaldehyde Manufacturing Base, Sales Area and Its Competitors
Table 104. Jinan Finer Chemical Co., Ltd. (CN) O-Phthalaldehyde Product Portfolios and Specifications
Table 105. Jinan Finer Chemical Co., Ltd. (CN) O-Phthalaldehyde Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 106. Jinan Finer Chemical Co., Ltd. (CN) Main Business
Table 107. Jinan Finer Chemical Co., Ltd. (CN) Latest Developments
Table 108. Shodhana Laboratories Ltd. (IN) Basic Information, O-Phthalaldehyde Manufacturing Base, Sales Area and Its Competitors
Table 109. Shodhana Laboratories Ltd. (IN) O-Phthalaldehyde Product Portfolios and Specifications
Table 110. Shodhana Laboratories Ltd. (IN) O-Phthalaldehyde Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 111. Shodhana Laboratories Ltd. (IN) Main Business
Table 112. Shodhana Laboratories Ltd. (IN) Latest Developments
Table 113. Capot Chemical Co., Ltd. (CN) Basic Information, O-Phthalaldehyde Manufacturing Base, Sales Area and Its Competitors
Table 114. Capot Chemical Co., Ltd. (CN) O-Phthalaldehyde Product Portfolios and Specifications
Table 115. Capot Chemical Co., Ltd. (CN) O-Phthalaldehyde Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 116. Capot Chemical Co., Ltd. (CN) Main Business
Table 117. Capot Chemical Co., Ltd. (CN) Latest Developments
Table 118. Chemodex AG (CH) Basic Information, O-Phthalaldehyde Manufacturing Base, Sales Area and Its Competitors
Table 119. Chemodex AG (CH) O-Phthalaldehyde Product Portfolios and Specifications
Table 120. Chemodex AG (CH) O-Phthalaldehyde Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 121. Chemodex AG (CH) Main Business
Table 122. Chemodex AG (CH) Latest Developments
Table 123. Shandong Qianlihong Biotechnology Co., Ltd. (CN) Basic Information, O-Phthalaldehyde Manufacturing Base, Sales Area and Its Competitors
Table 124. Shandong Qianlihong Biotechnology Co., Ltd. (CN) O-Phthalaldehyde Product Portfolios and Specifications
Table 125. Shandong Qianlihong Biotechnology Co., Ltd. (CN) O-Phthalaldehyde Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 126. Shandong Qianlihong Biotechnology Co., Ltd. (CN) Main Business
Table 127. Shandong Qianlihong Biotechnology Co., Ltd. (CN) Latest Developments
Table 128. Nanjing Zeyou New Material Technology Co., Ltd. (CN) Basic Information, O-Phthalaldehyde Manufacturing Base, Sales Area and Its Competitors
Table 129. Nanjing Zeyou New Material Technology Co., Ltd. (CN) O-Phthalaldehyde Product Portfolios and Specifications
Table 130. Nanjing Zeyou New Material Technology Co., Ltd. (CN) O-Phthalaldehyde Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 131. Nanjing Zeyou New Material Technology Co., Ltd. (CN) Main Business
Table 132. Nanjing Zeyou New Material Technology Co., Ltd. (CN) Latest Developments
Table 133. Hubei Bojie Biotechnology Co., Ltd. (CN) Basic Information, O-Phthalaldehyde Manufacturing Base, Sales Area and Its Competitors
Table 134. Hubei Bojie Biotechnology Co., Ltd. (CN) O-Phthalaldehyde Product Portfolios and Specifications
Table 135. Hubei Bojie Biotechnology Co., Ltd. (CN) O-Phthalaldehyde Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 136. Hubei Bojie Biotechnology Co., Ltd. (CN) Main Business
Table 137. Hubei Bojie Biotechnology Co., Ltd. (CN) Latest Developments
Table 138. Hangzhou Hairui Chemical Co., Ltd. (CN) Basic Information, O-Phthalaldehyde Manufacturing Base, Sales Area and Its Competitors
Table 139. Hangzhou Hairui Chemical Co., Ltd. (CN) O-Phthalaldehyde Product Portfolios and Specifications
Table 140. Hangzhou Hairui Chemical Co., Ltd. (CN) O-Phthalaldehyde Sales (Tons),

Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 141. Hangzhou Hairui Chemical Co., Ltd. (CN) Main Business

Table 142. Hangzhou Hairui Chemical Co., Ltd. (CN) Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of O-Phthalaldehyde
- Figure 2. O-Phthalaldehyde Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global O-Phthalaldehyde Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global O-Phthalaldehyde Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. O-Phthalaldehyde Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. O-Phthalaldehyde Sales Market Share by Country/Region (2025)
- Figure 10. O-Phthalaldehyde Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Above 99%
- Figure 12. Product Picture of Above 98%
- Figure 13. Global O-Phthalaldehyde Sales Market Share by Type in 2026
- Figure 14. Global O-Phthalaldehyde Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Industrial Grade
- Figure 16. Product Picture of Pharmaceutical Intermediate Grade
- Figure 17. Product Picture of Other
- Figure 18. Global O-Phthalaldehyde Sales Market Share by Grade in 2026
- Figure 19. Global O-Phthalaldehyde Revenue Market Share by Grade (2021-2026)
- Figure 20. Product Picture of Small-Pack Type
- Figure 21. Product Picture of Industrial Packaging Type
- Figure 22. Product Picture of Other
- Figure 23. Global O-Phthalaldehyde Sales Market Share by Packaging in 2026
- Figure 24. Global O-Phthalaldehyde Revenue Market Share by Packaging (2021-2026)
- Figure 25. O-Phthalaldehyde Consumed in Pharmaceutical Intermediate
- Figure 26. Global O-Phthalaldehyde Market: Pharmaceutical Intermediate (2021-2026) & (Tons)
- Figure 27. O-Phthalaldehyde Consumed in OPA Disinfectant
- Figure 28. Global O-Phthalaldehyde Market: OPA Disinfectant (2021-2026) & (Tons)
- Figure 29. O-Phthalaldehyde Consumed in Chemical Analytical Reagents
- Figure 30. Global O-Phthalaldehyde Market: Chemical Analytical Reagents (2021-2026) & (Tons)
- Figure 31. O-Phthalaldehyde Consumed in Others

- Figure 32. Global O-Phthalaldehyde Market: Others (2021-2026) & (Tons)
- Figure 33. Global O-Phthalaldehyde Sale Market Share by Application (2025)
- Figure 34. Global O-Phthalaldehyde Revenue Market Share by Application in 2025
- Figure 35. O-Phthalaldehyde Sales by Company in 2025 (Tons)
- Figure 36. Global O-Phthalaldehyde Sales Market Share by Company in 2025
- Figure 37. O-Phthalaldehyde Revenue by Company in 2025 (\$ millions)
- Figure 38. Global O-Phthalaldehyde Revenue Market Share by Company in 2025
- Figure 39. Global O-Phthalaldehyde Sales Market Share by Geographic Region (2021-2026)
- Figure 40. Global O-Phthalaldehyde Revenue Market Share by Geographic Region in 2025
- Figure 41. Americas O-Phthalaldehyde Sales 2021-2026 (Tons)
- Figure 42. Americas O-Phthalaldehyde Revenue 2021-2026 (\$ millions)
- Figure 43. APAC O-Phthalaldehyde Sales 2021-2026 (Tons)
- Figure 44. APAC O-Phthalaldehyde Revenue 2021-2026 (\$ millions)
- Figure 45. Europe O-Phthalaldehyde Sales 2021-2026 (Tons)
- Figure 46. Europe O-Phthalaldehyde Revenue 2021-2026 (\$ millions)
- Figure 47. Middle East & Africa O-Phthalaldehyde Sales 2021-2026 (Tons)
- Figure 48. Middle East & Africa O-Phthalaldehyde Revenue 2021-2026 (\$ millions)
- Figure 49. Americas O-Phthalaldehyde Sales Market Share by Country in 2025
- Figure 50. Americas O-Phthalaldehyde Revenue Market Share by Country (2021-2026)
- Figure 51. Americas O-Phthalaldehyde Sales Market Share by Type (2021-2026)
- Figure 52. Americas O-Phthalaldehyde Sales Market Share by Application (2021-2026)
- Figure 53. United States O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 54. Canada O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 55. Mexico O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 56. Brazil O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 57. APAC O-Phthalaldehyde Sales Market Share by Region in 2025
- Figure 58. APAC O-Phthalaldehyde Revenue Market Share by Region (2021-2026)
- Figure 59. APAC O-Phthalaldehyde Sales Market Share by Type (2021-2026)
- Figure 60. APAC O-Phthalaldehyde Sales Market Share by Application (2021-2026)
- Figure 61. China O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 62. Japan O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 63. South Korea O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 64. Southeast Asia O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 65. India O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 66. Australia O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 67. China Taiwan O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 68. Europe O-Phthalaldehyde Sales Market Share by Country in 2025

- Figure 69. Europe O-Phthalaldehyde Revenue Market Share by Country (2021-2026)
- Figure 70. Europe O-Phthalaldehyde Sales Market Share by Type (2021-2026)
- Figure 71. Europe O-Phthalaldehyde Sales Market Share by Application (2021-2026)
- Figure 72. Germany O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 73. France O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 74. UK O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 75. Italy O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 76. Russia O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 77. Middle East & Africa O-Phthalaldehyde Sales Market Share by Country (2021-2026)
- Figure 78. Middle East & Africa O-Phthalaldehyde Sales Market Share by Type (2021-2026)
- Figure 79. Middle East & Africa O-Phthalaldehyde Sales Market Share by Application (2021-2026)
- Figure 80. Egypt O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 81. South Africa O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 82. Israel O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 83. Turkey O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 84. GCC Countries O-Phthalaldehyde Revenue Growth 2021-2026 (\$ millions)
- Figure 85. Manufacturing Cost Structure Analysis of O-Phthalaldehyde in 2026
- Figure 86. Manufacturing Process Analysis of O-Phthalaldehyde
- Figure 87. Industry Chain Structure of O-Phthalaldehyde
- Figure 88. Channels of Distribution
- Figure 89. Global O-Phthalaldehyde Sales Market Forecast by Region (2027-2032)
- Figure 90. Global O-Phthalaldehyde Revenue Market Share Forecast by Region (2027-2032)
- Figure 91. Global O-Phthalaldehyde Sales Market Share Forecast by Type (2027-2032)
- Figure 92. Global O-Phthalaldehyde Revenue Market Share Forecast by Type (2027-2032)
- Figure 93. Global O-Phthalaldehyde Sales Market Share Forecast by Application (2027-2032)
- Figure 94. Global O-Phthalaldehyde Revenue Market Share Forecast by Application (2027-2032)

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