

# 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application

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## Abstracts

### 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Market Summary

#### Introduction

4,4'-Diaminodiphenyl Ether (4,4'-ODA) is a vital monomer used in the production of polyimides, epoxy resins, and dyes, known for its exceptional thermal stability, mechanical strength, and chemical resistance. Polyimides derived from 4,4'-ODA are essential in high-performance applications such as flexible electronics, aerospace components, and automotive parts, while epoxy resins enhance coatings and adhesives for construction and industrial uses. Its role in dyes supports textile and colorant industries, catering to fashion and industrial needs. The market is projected to reach 55 to 95 million USD by 2025, with a CAGR of 3.5% to 6.5%, driven by demand for advanced materials in electronics, aerospace, and automotive sectors. Key producers include Shandong Guansen Polymers Materials Science and Technology Inc. with a 5,000-ton capacity and plans for another 5,000 tons, Dongying Mingde Chemical Co. LTD with 3,000 tons and a 5,000-ton expansion, and Gansu Luyu Dongyi Fine Chemical Co., Ltd, which commissioned a 5,000-ton plant in 2023. Nantong Huishun Chemical Co. Ltd., with a 600-ton capacity, shifted focus to polyimide resin production in 2023, ceasing 4,4'-ODA output, reflecting market dynamics.

#### Regional Analysis

The 4,4'-ODA market shows regional growth patterns tied to industrial and technological advancements. Asia-Pacific, with growth estimated at 4.0% to 7.0%, is led by China and Japan, driven by their electronics manufacturing and aerospace sectors. India's chemical industry also contributes, supported by growing demand for high-performance materials. Europe, growing at 3.0% to 5.5%, is propelled by Germany and France,

where aerospace and automotive industries demand advanced polymers. North America, projected at 3.5% to 6.0%, sees the United States leading, fueled by its aerospace sector and electronics innovation. These regions balance volume-driven growth in Asia-Pacific with value-driven applications in Europe and North America, shaping market expansion.

#### Application Analysis

4,4'-ODA's applications reflect its versatility and growth potential:

**Polyimide:** Growth estimated at 4.0% to 7.0%. Used in flexible circuits, aerospace components, and high-temperature insulation, demand is driven by electronics miniaturization and aerospace advancements.

**Epoxy Resin:** Projected growth of 3.5% to 6.0%. Enhances coatings and adhesives for construction and automotive, benefiting from infrastructure growth and lightweighting trends.

**Dye:** Growth forecasted at 2.5% to 5.0%. Serves textile and colorant markets, with steady demand in fashion and industrial applications, though smaller in scale.

The trend toward high-performance materials in electronics and aerospace drives polyimide growth, while epoxy resins and dyes maintain steady demand in traditional sectors.

#### Key Market Players

Key players include SEIKA, a global leader in chemical intermediates; Shandong Guansen Polymers Materials Science and Technology Inc., with 5,000 tons and plans for another 5,000 tons based on market conditions; Dongying Mingde Chemical Co. LTD, operating 3,000 tons with a 5,000-ton expansion planned; Gansu Luyu Dongyi Fine Chemical Co., Ltd, commissioning 5,000 tons in 2023; Wanda Chemical, focusing on specialty chemicals; and Puyang ShengHuaDe Chemical Co. LTD, contributing to regional supply. These firms drive market dynamics through capacity and innovation.

#### Porter's Five Forces Analysis

**Threat of New Entrants:** Moderate. While the market requires specialized synthesis knowledge, growing demand for polyimides could attract new players, especially in Asia-Pacific, though high capital and technical barriers favor incumbents.

**Threat of Substitutes:** Low to Moderate. Alternative monomers exist, but 4,4'-ODA's unique properties in polyimides and epoxy resins limit substitution, though cost pressures may drive alternatives in dyes.

**Bargaining Power of Buyers:** High. Large electronics and aerospace firms can negotiate

terms due to their purchasing power, pressuring suppliers on price and quality.

**Bargaining Power of Suppliers:** Moderate. Raw material suppliers have some leverage, but multiple sourcing options mitigate their influence, balancing market dynamics.

**Competitive Rivalry:** High. With several players expanding capacities, competition focuses on quality, reliability, and cost, intensified by market growth and regional competition.

### Market Opportunities and Challenges

#### Opportunities:

**Electronics Industry Expansion:** The rise of flexible electronics, 5G, and advanced displays increases demand for 4,4'-ODA-based polyimides, offering significant growth potential.

**Aerospace and Automotive Growth:** Lightweight, high-strength materials in aircraft and vehicles boost polyimide and epoxy resin demand, supporting market expansion.

**Capacity Expansions:** Planned increases by Shandong Guansen and Dongying Mingde signal confidence, enhancing supply to meet rising needs.

#### Challenges:

**Regulatory Compliance:** Stricter environmental and safety regulations require sustainable production practices, increasing costs.

**Raw Material Volatility:** Petrochemical feedstock price fluctuations impact production costs and profitability.

**Technological Barriers:** Maintaining high-quality production processes demands ongoing R&D, challenging smaller players and requiring continuous innovation.

## Contents

### **CHAPTER 1 EXECUTIVE SUMMARY**

### **CHAPTER 2 ABBREVIATION AND ACRONYMS**

### **CHAPTER 3 PREFACE**

- 3.1 Research Scope
- 3.2 Research Sources
  - 3.2.1 Data Sources
  - 3.2.2 Assumptions
- 3.3 Research Method

### **CHAPTER 4 MARKET LANDSCAPE**

- 4.1 Market Overview
- 4.2 Classification/Types
- 4.3 Application/End Users

### **CHAPTER 5 MARKET TREND ANALYSIS**

- 5.1 Introduction
- 5.2 Drivers
- 5.3 Restraints
- 5.4 Opportunities
- 5.5 Threats

### **CHAPTER 6 INDUSTRY CHAIN ANALYSIS**

- 6.1 Upstream/Suppliers Analysis
- 6.2 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Analysis
  - 6.2.1 Technology Analysis
  - 6.2.2 Cost Analysis
  - 6.2.3 Market Channel Analysis
- 6.3 Downstream Buyers/End Users

### **CHAPTER 7 LATEST MARKET DYNAMICS**

- 7.1 Latest News
- 7.2 Merger and Acquisition
- 7.3 Planned/Future Project
- 7.4 Policy Dynamics

## **CHAPTER 8 TRADING ANALYSIS**

- 8.1 Export of 4,4'-Diaminodiphenyl Ether (4,4'-Oda) by Region
- 8.2 Import of 4,4'-Diaminodiphenyl Ether (4,4'-Oda) by Region
- 8.3 Balance of Trade

## **CHAPTER 9 HISTORICAL AND FORECAST 4,4'-DIAMINODIPHENYL ETHER (4,4'-ODA) MARKET IN NORTH AMERICA (2020-2030)**

- 9.1 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size
- 9.2 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand by End Use
- 9.3 Competition by Players/Suppliers
- 9.4 Type Segmentation and Price
- 9.5 Key Countries Analysis
  - 9.5.1 United States
  - 9.5.2 Canada
  - 9.5.3 Mexico

## **CHAPTER 10 HISTORICAL AND FORECAST 4,4'-DIAMINODIPHENYL ETHER (4,4'-ODA) MARKET IN SOUTH AMERICA (2020-2030)**

- 10.1 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size
- 10.2 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand by End Use
- 10.3 Competition by Players/Suppliers
- 10.4 Type Segmentation and Price
- 10.5 Key Countries Analysis
  - 10.5.1 Brazil
  - 10.5.2 Argentina
  - 10.5.3 Chile
  - 10.5.4 Peru

## **CHAPTER 11 HISTORICAL AND FORECAST 4,4'-DIAMINODIPHENYL ETHER (4,4'-ODA) MARKET IN ASIA & PACIFIC (2020-2030)**

- 11.1 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size
- 11.2 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Type Segmentation and Price
- 11.5 Key Countries Analysis
  - 11.5.1 China
  - 11.5.2 India
  - 11.5.3 Japan
  - 11.5.4 South Korea
  - 11.5.5 Southeast Asia
  - 11.5.6 Australia

## **CHAPTER 12 HISTORICAL AND FORECAST 4,4'-DIAMINODIPHENYL ETHER (4,4'-ODA) MARKET IN EUROPE (2020-2030)**

- 12.1 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size
- 12.2 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Type Segmentation and Price
- 12.5 Key Countries Analysis
  - 12.5.1 Germany
  - 12.5.2 France
  - 12.5.3 United Kingdom
  - 12.5.4 Italy
  - 12.5.5 Spain
  - 12.5.6 Belgium
  - 12.5.7 Netherlands
  - 12.5.8 Austria
  - 12.5.9 Poland
  - 12.5.10 Russia

## **CHAPTER 13 HISTORICAL AND FORECAST 4,4'-DIAMINODIPHENYL ETHER (4,4'-ODA) MARKET IN MEA (2020-2030)**

- 13.1 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size
- 13.2 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Type Segmentation and Price
- 13.5 Key Countries Analysis

- 13.5.1 Egypt
- 13.5.2 Israel
- 13.5.3 South Africa
- 13.5.4 Gulf Cooperation Council Countries
- 13.5.5 Turkey

## **CHAPTER 14 SUMMARY FOR GLOBAL 4,4'-DIAMINODIPHENYL ETHER (4,4'-ODA) MARKET (2020-2025)**

- 14.1 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size
- 14.2 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand by End Use
- 14.3 Competition by Players/Suppliers
- 14.4 Type Segmentation and Price

## **CHAPTER 15 GLOBAL 4,4'-DIAMINODIPHENYL ETHER (4,4'-ODA) MARKET FORECAST (2025-2030)**

- 15.1 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size Forecast
- 15.2 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand Forecast
- 15.3 Competition by Players/Suppliers
- 15.4 Type Segmentation and Price Forecast

## **CHAPTER 16 ANALYSIS OF GLOBAL KEY VENDORS**

- 16.1 SEIKA
  - 16.1.1 Company Profile
  - 16.1.2 Main Business and 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Information
  - 16.1.3 SWOT Analysis of SEIKA
  - 16.1.4 SEIKA 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.3 Wanda Chemical
  - 16.3.1 Company Profile
  - 16.3.2 Main Business and 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Information
  - 16.3.3 SWOT Analysis of Wanda Chemical
  - 16.3.4 Wanda Chemical 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.4 Dongying Mingde Chemical Co. LTD
  - 16.4.1 Company Profile
  - 16.4.2 Main Business and 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Information

- 16.4.3 SWOT Analysis of Dongying Mingde Chemical Co. LTD
- 16.4.4 Dongying Mingde Chemical Co. LTD 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.5 Gansu Luyu Dongyi Fine Chemical Co.
  - 16.5.1 Company Profile
  - 16.5.2 Main Business and 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Information
  - 16.5.3 SWOT Analysis of Gansu Luyu Dongyi Fine Chemical Co.
  - 16.5.4 Gansu Luyu Dongyi Fine Chemical Co. 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.6 Ltd
  - 16.6.1 Company Profile
  - 16.6.2 Main Business and 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Information
  - 16.6.3 SWOT Analysis of Ltd
  - 16.6.4 Ltd 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Sales, Revenue, Price and Gross Margin (2020-2025)

Please ask for sample pages for full companies list

Tables and Figures

- Table Abbreviation and Acronyms List
- Table Research Scope of 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Report
- Table Data Sources of 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Report
- Table Major Assumptions of 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Report
- Figure Market Size Estimated Method
- Figure Major Forecasting Factors
- Figure 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Picture
- Table 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Classification
- Table 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Applications List
- Table Drivers of 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market
- Table Restraints of 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market
- Table Opportunities of 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market
- Table Threats of 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market
- Table Raw Materials Suppliers List
- Table Different Production Methods of 4,4'-Diaminodiphenyl Ether (4,4'-Oda)
- Table Cost Structure Analysis of 4,4'-Diaminodiphenyl Ether (4,4'-Oda)
- Table Key End Users List
- Table Latest News of 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market
- Table Merger and Acquisition List
- Table Planned/Future Project of 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market
- Table Policy of 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market
- Table 2020-2030 Regional Export of 4,4'-Diaminodiphenyl Ether (4,4'-Oda)

Table 2020-2030 Regional Import of 4,4'-Diaminodiphenyl Ether (4,4'-Oda)  
Table 2020-2030 Regional Trade Balance  
Figure 2020-2030 Regional Trade Balance  
Table 2020-2030 North America 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List  
Figure 2020-2030 North America 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and CAGR  
Figure 2020-2030 North America 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Volume and CAGR  
Table 2020-2030 North America 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand List by Application  
Table 2020-2025 North America 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Key Players Sales List  
Table 2020-2025 North America 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Key Players Market Share List  
Table 2020-2030 North America 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand List by Type  
Table 2020-2025 North America 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Price List by Type  
Table 2020-2030 United States 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List  
Table 2020-2030 United States 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List  
Table 2020-2030 Canada 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List  
Table 2020-2030 Canada 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List  
Table 2020-2030 Mexico 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List  
Table 2020-2030 Mexico 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List  
Table 2020-2030 South America 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List  
Figure 2020-2030 South America 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and CAGR  
Figure 2020-2030 South America 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Volume and CAGR  
Table 2020-2030 South America 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand List by Application  
Table 2020-2025 South America 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Key Players Sales List

Table 2020-2025 South America 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Key Players Market Share List

Table 2020-2030 South America 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand List by Type

Table 2020-2025 South America 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Price List by Type

Table 2020-2030 Brazil 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 Brazil 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 Argentina 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 Argentina 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 Chile 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 Chile 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 Peru 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 Peru 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 Asia & Pacific 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Figure 2020-2030 Asia & Pacific 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and CAGR

Figure 2020-2030 Asia & Pacific 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Volume and CAGR

Table 2020-2030 Asia & Pacific 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand List by Application

Table 2020-2025 Asia & Pacific 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Key Players Sales List

Table 2020-2025 Asia & Pacific 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Key Players Market Share List

Table 2020-2030 Asia & Pacific 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand List by Type

Table 2020-2025 Asia & Pacific 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Price List by Type

Table 2020-2030 China 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 China 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 India 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 India 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 Japan 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 Japan 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 South Korea 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 South Korea 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 Southeast Asia 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size List

Table 2020-2030 Southeast Asia 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Volume List

Table 2020-2030 Southeast Asia 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import List

Table 2020-2030 Southeast Asia 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Export List

Table 2020-2030 Australia 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 Australia 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 Europe 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Figure 2020-2030 Europe 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and CAGR

Figure 2020-2030 Europe 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Volume and CAGR

Table 2020-2030 Europe 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand List by Application

Table 2020-2025 Europe 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Key Players Sales List

Table 2020-2025 Europe 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Key Players Market Share List

Table 2020-2030 Europe 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand List by Type

Table 2020-2025 Europe 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Price List by Type

Table 2020-2030 Germany 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 Germany 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 France 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 France 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 United Kingdom 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 United Kingdom 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 Italy 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 Italy 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 Spain 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 Spain 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 Belgium 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 Belgium 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 Netherlands 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 Netherlands 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 Austria 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 Austria 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 Poland 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 Poland 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 Russia 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 Russia 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 MEA 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Figure 2020-2030 MEA 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and CAGR

Figure 2020-2030 MEA 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Volume and CAGR

Table 2020-2030 MEA 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand List by Application

Table 2020-2025 MEA 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Key Players Sales List

Table 2020-2025 MEA 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Key Players Market Share List

Table 2020-2030 MEA 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand List by Type

Table 2020-2025 MEA 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Price List by Type

Table 2020-2030 Egypt 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 Egypt 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 Israel 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 Israel 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 South Africa 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 South Africa 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 Gulf Cooperation Council Countries 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 Gulf Cooperation Council Countries 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2030 Turkey 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size and Market Volume List

Table 2020-2030 Turkey 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Import & Export List

Table 2020-2025 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size List by Region

Table 2020-2025 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size Share List by Region

Table 2020-2025 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Volume List by Region

Table 2020-2025 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Volume Share List by Region

Table 2020-2025 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand List by Application

Table 2020-2025 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand Market Share List by Application

Table 2020-2025 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Capacity List

Table 2020-2025 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Key Vendors Capacity Share List

Table 2020-2025 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Key Vendors Production List

Table 2020-2025 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Key Vendors Production Share List

Figure 2020-2025 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Capacity Production and Growth Rate

Table 2020-2025 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Key Vendors Production Value List

Figure 2020-2025 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Production Value and Growth Rate

Table 2020-2025 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Key Vendors Production Value Share List

Table 2020-2025 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand List by Type  
Table 2020-2025 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand Market Share List by Type  
Table 2020-2025 Regional 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Price List  
Table 2025-2030 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size List by Region  
Table 2025-2030 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Size Share List by Region  
Table 2025-2030 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Volume List by Region  
Table 2025-2030 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Market Volume Share List by Region  
Table 2025-2030 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand List by Application  
Table 2025-2030 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand Market Share List by Application  
Table 2025-2030 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Capacity List  
Table 2025-2030 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Key Vendors Capacity Share List  
Table 2025-2030 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Key Vendors Production List  
Table 2025-2030 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Key Vendors Production Share List  
Figure 2025-2030 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Capacity Production and Growth Rate  
Table 2025-2030 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Key Vendors Production Value List  
Figure 2025-2030 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Production Value and Growth Rate  
Table 2025-2030 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Key Vendors Production Value Share List  
Table 2025-2030 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand List by Type  
Table 2025-2030 Global 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Demand Market Share List by Type  
Table 2025-2030 4,4'-Diaminodiphenyl Ether (4,4'-Oda) Regional Price List  
Table SEIKA Information  
Table SWOT Analysis of SEIKA  
Table 2020-2025 SEIKA 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Product Capacity  
Production Price Cost Production Value

Figure 2020-2025 SEIKA 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Capacity Production and Growth Rate

Figure 2020-2025 SEIKA 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Market Share

Table Shandong Guansen Polymers Materials Science and Technology Inc. Information

Table SWOT Analysis of Shandong Guansen Polymers Materials Science and Technology Inc.

Table 2020-2025 Shandong Guansen Polymers Materials Science and Technology Inc. 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Product Capacity Production Price Cost Production Value

Figure 2020-2025 Shandong Guansen Polymers Materials Science and Technology Inc. 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Capacity Production and Growth Rate

Figure 2020-2025 Shandong Guansen Polymers Materials Science and Technology Inc. 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Market Share

Table Wanda Chemical Information

Table SWOT Analysis of Wanda Chemical

Table 2020-2025 Wanda Chemical 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Product Capacity Production Price Cost Production Value

Figure 2020-2025 Wanda Chemical 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Capacity Production and Growth Rate

Figure 2020-2025 Wanda Chemical 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Market Share

Table Dongying Mingde Chemical Co. LTD Information

Table SWOT Analysis of Dongying Mingde Chemical Co. LTD

Table 2020-2025 Dongying Mingde Chemical Co. LTD 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Product Capacity Production Price Cost Production Value

Figure 2020-2025 Dongying Mingde Chemical Co. LTD 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Capacity Production and Growth Rate

Figure 2020-2025 Dongying Mingde Chemical Co. LTD 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Market Share

Table Gansu Luyu Dongyi Fine Chemical Co. Information

Table SWOT Analysis of Gansu Luyu Dongyi Fine Chemical Co.

Table 2020-2025 Gansu Luyu Dongyi Fine Chemical Co. 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Product Capacity Production Price Cost Production Value

Figure 2020-2025 Gansu Luyu Dongyi Fine Chemical Co. 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Capacity Production and Growth Rate

Figure 2020-2025 Gansu Luyu Dongyi Fine Chemical Co. 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Market Share

Table Ltd Information

Table SWOT Analysis of Ltd

Table 2020-2025 Ltd 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Product Capacity  
Production Price Cost Production Value

Figure 2020-2025 Ltd 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Capacity Production and  
Growth Rate

Figure 2020-2025 Ltd 4,4'-Diaminodiphenyl Ether (4,4'-ODA) Market Share

Table Puyang ShengHuaDe Chemical Co. LTD Information

Table SWOT Analysis of Puyang ShengHuaDe Chemical Co. LTD

Table 2020-2025 Puyang ShengHuaDe Chemical Co. LTD 4,4'-Diaminodiphenyl Ether  
(4,4'-ODA) Product Capacity Production Price Cost Production Value

Figure 2020-2025 Puyang ShengHuaDe Chemical Co. LTD 4,4'-Diaminodiphenyl Ether  
(4,4'-ODA) Capacity Production and Growth Rate

Figure 2020-2025 Puyang ShengHuaDe Chemical Co. LTD 4,4'-Diaminodiphenyl Ether  
(4,4'-ODA) Market Share

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