

Global Biological 1,3-Propanediol (PDO) Supply, Demand and Key Producers, 2023-2029

<https://marketpublishers.com/r/G5BC1851ABDBEN.html>

Date: July 2024

Pages: 102

Price: US\$ 4,480.00 (Single User License)

ID: G5BC1851ABDBEN

Abstracts

The global Biological 1,3-Propanediol (PDO) market size is expected to reach \$ 952.2 million by 2029, rising at a market growth of 8.2% CAGR during the forecast period (2023-2029).

Biological 1,3-Propanediol, also known as bio-based 1,3-propanediol or bio-PDO, is a renewable and sustainable chemical compound derived from biomass sources. It is a type of diol, meaning it contains two hydroxyl groups (-OH) attached to adjacent carbon atoms. Bio-PDO is produced through the fermentation process of renewable feedstocks such as corn, sugar beets, or sugarcane. The feedstock is converted into glycerol, which is then further processed to produce bio-PDO. This bio-based alternative to traditional petroleum-based 1,3-propanediol offers several advantages, including reduced environmental impact and lower carbon emissions.

This report studies the global Biological 1,3-Propanediol (PDO) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Biological 1,3-Propanediol (PDO), and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Biological 1,3-Propanediol (PDO) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Biological 1,3-Propanediol (PDO) total production and demand, 2018-2029, (Tons)

Global Biological 1,3-Propanediol (PDO) total production value, 2018-2029, (USD Million)

Global Biological 1,3-Propanediol (PDO) production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Biological 1,3-Propanediol (PDO) consumption by region & country, CAGR, 2018-2029 & (Tons)

U.S. VS China: Biological 1,3-Propanediol (PDO) domestic production, consumption, key domestic manufacturers and share

Global Biological 1,3-Propanediol (PDO) production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global Biological 1,3-Propanediol (PDO) production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Biological 1,3-Propanediol (PDO) production by Application production, value, CAGR, 2018-2029, (USD Million) & (Tons)

This reports profiles key players in the global Biological 1,3-Propanediol (PDO) 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 DuPont, METabolic EXplorer, Zhangjiagang Glory Chemical Industry, Jiangsu Eastern Shenghong and Guangdong Tsinghua Smart Biotech, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Biological 1,3-Propanediol (PDO) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by

manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Biological 1,3-Propanediol (PDO) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Biological 1,3-Propanediol (PDO) Market, Segmentation by Type

Industrial Grade

Pharmaceutical Grade

Global Biological 1,3-Propanediol (PDO) Market, Segmentation by Application

PTT & Polyurethane

Cosmetic

Pharmaceutical

Other

Companies Profiled:

DuPont

METabolic EXplorer

Zhangjiagang Glory Chemical Industry

Jiangsu Eastern Shenghong

Guangdong Tsinghua Smart Biotech

Key Questions Answered

1. How big is the global Biological 1,3-Propanediol (PDO) market?
2. What is the demand of the global Biological 1,3-Propanediol (PDO) market?
3. What is the year over year growth of the global Biological 1,3-Propanediol (PDO) market?
4. What is the production and production value of the global Biological 1,3-Propanediol (PDO) market?
5. Who are the key producers in the global Biological 1,3-Propanediol (PDO) market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Biological 1,3-Propanediol (PDO) Introduction
- 1.2 World Biological 1,3-Propanediol (PDO) Supply & Forecast
 - 1.2.1 World Biological 1,3-Propanediol (PDO) Production Value (2018 & 2022 & 2029)
 - 1.2.2 World Biological 1,3-Propanediol (PDO) Production (2018-2029)
 - 1.2.3 World Biological 1,3-Propanediol (PDO) Pricing Trends (2018-2029)
- 1.3 World Biological 1,3-Propanediol (PDO) Production by Region (Based on Production Site)
 - 1.3.1 World Biological 1,3-Propanediol (PDO) Production Value by Region (2018-2029)
 - 1.3.2 World Biological 1,3-Propanediol (PDO) Production by Region (2018-2029)
 - 1.3.3 World Biological 1,3-Propanediol (PDO) Average Price by Region (2018-2029)
 - 1.3.4 North America Biological 1,3-Propanediol (PDO) Production (2018-2029)
 - 1.3.5 Europe Biological 1,3-Propanediol (PDO) Production (2018-2029)
 - 1.3.6 China Biological 1,3-Propanediol (PDO) Production (2018-2029)
 - 1.3.7 Japan Biological 1,3-Propanediol (PDO) Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Biological 1,3-Propanediol (PDO) Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Biological 1,3-Propanediol (PDO) Major Market Trends
- 1.5 Influence of COVID-19 and Russia-Ukraine War
 - 1.5.1 Influence of COVID-19
 - 1.5.2 Influence of Russia-Ukraine War

2 DEMAND SUMMARY

- 2.1 World Biological 1,3-Propanediol (PDO) Demand (2018-2029)
- 2.2 World Biological 1,3-Propanediol (PDO) Consumption by Region
 - 2.2.1 World Biological 1,3-Propanediol (PDO) Consumption by Region (2018-2023)
 - 2.2.2 World Biological 1,3-Propanediol (PDO) Consumption Forecast by Region (2024-2029)
- 2.3 United States Biological 1,3-Propanediol (PDO) Consumption (2018-2029)
- 2.4 China Biological 1,3-Propanediol (PDO) Consumption (2018-2029)
- 2.5 Europe Biological 1,3-Propanediol (PDO) Consumption (2018-2029)
- 2.6 Japan Biological 1,3-Propanediol (PDO) Consumption (2018-2029)
- 2.7 South Korea Biological 1,3-Propanediol (PDO) Consumption (2018-2029)

2.8 ASEAN Biological 1,3-Propanediol (PDO) Consumption (2018-2029)

2.9 India Biological 1,3-Propanediol (PDO) Consumption (2018-2029)

3 WORLD BIOLOGICAL 1,3-PROPANEDIOL (PDO) MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Biological 1,3-Propanediol (PDO) Production Value by Manufacturer (2018-2023)

3.2 World Biological 1,3-Propanediol (PDO) Production by Manufacturer (2018-2023)

3.3 World Biological 1,3-Propanediol (PDO) Average Price by Manufacturer (2018-2023)

3.4 Biological 1,3-Propanediol (PDO) Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Biological 1,3-Propanediol (PDO) Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Biological 1,3-Propanediol (PDO) in 2022

3.5.3 Global Concentration Ratios (CR8) for Biological 1,3-Propanediol (PDO) in 2022

3.6 Biological 1,3-Propanediol (PDO) Market: Overall Company Footprint Analysis

3.6.1 Biological 1,3-Propanediol (PDO) Market: Region Footprint

3.6.2 Biological 1,3-Propanediol (PDO) Market: Company Product Type Footprint

3.6.3 Biological 1,3-Propanediol (PDO) 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: Biological 1,3-Propanediol (PDO) Production Value Comparison

4.1.1 United States VS China: Biological 1,3-Propanediol (PDO) Production Value Comparison (2018 & 2022 & 2029)

4.1.2 United States VS China: Biological 1,3-Propanediol (PDO) Production Value Market Share Comparison (2018 & 2022 & 2029)

4.2 United States VS China: Biological 1,3-Propanediol (PDO) Production Comparison

4.2.1 United States VS China: Biological 1,3-Propanediol (PDO) Production Comparison (2018 & 2022 & 2029)

4.2.2 United States VS China: Biological 1,3-Propanediol (PDO) Production Market Share Comparison (2018 & 2022 & 2029)

4.3 United States VS China: Biological 1,3-Propanediol (PDO) Consumption Comparison

4.3.1 United States VS China: Biological 1,3-Propanediol (PDO) Consumption Comparison (2018 & 2022 & 2029)

4.3.2 United States VS China: Biological 1,3-Propanediol (PDO) Consumption Market Share Comparison (2018 & 2022 & 2029)

4.4 United States Based Biological 1,3-Propanediol (PDO) Manufacturers and Market Share, 2018-2023

4.4.1 United States Based Biological 1,3-Propanediol (PDO) Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Biological 1,3-Propanediol (PDO) Production Value (2018-2023)

4.4.3 United States Based Manufacturers Biological 1,3-Propanediol (PDO) Production (2018-2023)

4.5 China Based Biological 1,3-Propanediol (PDO) Manufacturers and Market Share

4.5.1 China Based Biological 1,3-Propanediol (PDO) Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Biological 1,3-Propanediol (PDO) Production Value (2018-2023)

4.5.3 China Based Manufacturers Biological 1,3-Propanediol (PDO) Production (2018-2023)

4.6 Rest of World Based Biological 1,3-Propanediol (PDO) Manufacturers and Market Share, 2018-2023

4.6.1 Rest of World Based Biological 1,3-Propanediol (PDO) Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Biological 1,3-Propanediol (PDO) Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers Biological 1,3-Propanediol (PDO) Production (2018-2023)

5 MARKET ANALYSIS BY TYPE

5.1 World Biological 1,3-Propanediol (PDO) Market Size Overview by Type: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Type

5.2.1 Industrial Grade

5.2.2 Pharmaceutical Grade

5.3 Market Segment by Type

5.3.1 World Biological 1,3-Propanediol (PDO) Production by Type (2018-2029)

5.3.2 World Biological 1,3-Propanediol (PDO) Production Value by Type (2018-2029)

5.3.3 World Biological 1,3-Propanediol (PDO) Average Price by Type (2018-2029)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Biological 1,3-Propanediol (PDO) Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 PTT & Polyurethane

6.2.2 Cosmetic

6.2.3 Pharmaceutical

6.2.4 Other

6.3 Market Segment by Application

6.3.1 World Biological 1,3-Propanediol (PDO) Production by Application (2018-2029)

6.3.2 World Biological 1,3-Propanediol (PDO) Production Value by Application (2018-2029)

6.3.3 World Biological 1,3-Propanediol (PDO) Average Price by Application (2018-2029)

7 COMPANY PROFILES

7.1 DuPont

7.1.1 DuPont Details

7.1.2 DuPont Major Business

7.1.3 DuPont Biological 1,3-Propanediol (PDO) Product and Services

7.1.4 DuPont Biological 1,3-Propanediol (PDO) Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.1.5 DuPont Recent Developments/Updates

7.1.6 DuPont Competitive Strengths & Weaknesses

7.2 METabolic EXplorer

7.2.1 METabolic EXplorer Details

7.2.2 METabolic EXplorer Major Business

7.2.3 METabolic EXplorer Biological 1,3-Propanediol (PDO) Product and Services

7.2.4 METabolic EXplorer Biological 1,3-Propanediol (PDO) Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.2.5 METabolic EXplorer Recent Developments/Updates

7.2.6 METabolic EXplorer Competitive Strengths & Weaknesses

7.3 Zhangjiagang Glory Chemical Industry

7.3.1 Zhangjiagang Glory Chemical Industry Details

7.3.2 Zhangjiagang Glory Chemical Industry Major Business

7.3.3 Zhangjiagang Glory Chemical Industry Biological 1,3-Propanediol (PDO) Product and Services

7.3.4 Zhangjiagang Glory Chemical Industry Biological 1,3-Propanediol (PDO) Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.3.5 Zhangjiagang Glory Chemical Industry Recent Developments/Updates

7.3.6 Zhangjiagang Glory Chemical Industry Competitive Strengths & Weaknesses

7.4 Jiangsu Eastern Shenghong

7.4.1 Jiangsu Eastern Shenghong Details

7.4.2 Jiangsu Eastern Shenghong Major Business

7.4.3 Jiangsu Eastern Shenghong Biological 1,3-Propanediol (PDO) Product and Services

7.4.4 Jiangsu Eastern Shenghong Biological 1,3-Propanediol (PDO) Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.4.5 Jiangsu Eastern Shenghong Recent Developments/Updates

7.4.6 Jiangsu Eastern Shenghong Competitive Strengths & Weaknesses

7.5 Guangdong Tsinghua Smart Biotech

7.5.1 Guangdong Tsinghua Smart Biotech Details

7.5.2 Guangdong Tsinghua Smart Biotech Major Business

7.5.3 Guangdong Tsinghua Smart Biotech Biological 1,3-Propanediol (PDO) Product and Services

7.5.4 Guangdong Tsinghua Smart Biotech Biological 1,3-Propanediol (PDO) Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.5.5 Guangdong Tsinghua Smart Biotech Recent Developments/Updates

7.5.6 Guangdong Tsinghua Smart Biotech Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

8.1 Biological 1,3-Propanediol (PDO) Industry Chain

8.2 Biological 1,3-Propanediol (PDO) Upstream Analysis

8.2.1 Biological 1,3-Propanediol (PDO) Core Raw Materials

8.2.2 Main Manufacturers of Biological 1,3-Propanediol (PDO) Core Raw Materials

8.3 Midstream Analysis

8.4 Downstream Analysis

8.5 Biological 1,3-Propanediol (PDO) Production Mode

8.6 Biological 1,3-Propanediol (PDO) Procurement Model

8.7 Biological 1,3-Propanediol (PDO) Industry Sales Model and Sales Channels

- 8.7.1 Biological 1,3-Propanediol (PDO) Sales Model
- 8.7.2 Biological 1,3-Propanediol (PDO) Typical Customers

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

- 10.1 Methodology
- 10.2 Research Process and Data Source
- 10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Biological 1,3-Propanediol (PDO) Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World Biological 1,3-Propanediol (PDO) Production Value by Region (2018-2023) & (USD Million)

Table 3. World Biological 1,3-Propanediol (PDO) Production Value by Region (2024-2029) & (USD Million)

Table 4. World Biological 1,3-Propanediol (PDO) Production Value Market Share by Region (2018-2023)

Table 5. World Biological 1,3-Propanediol (PDO) Production Value Market Share by Region (2024-2029)

Table 6. World Biological 1,3-Propanediol (PDO) Production by Region (2018-2023) & (Tons)

Table 7. World Biological 1,3-Propanediol (PDO) Production by Region (2024-2029) & (Tons)

Table 8. World Biological 1,3-Propanediol (PDO) Production Market Share by Region (2018-2023)

Table 9. World Biological 1,3-Propanediol (PDO) Production Market Share by Region (2024-2029)

Table 10. World Biological 1,3-Propanediol (PDO) Average Price by Region (2018-2023) & (US\$/Ton)

Table 11. World Biological 1,3-Propanediol (PDO) Average Price by Region (2024-2029) & (US\$/Ton)

Table 12. Biological 1,3-Propanediol (PDO) Major Market Trends

Table 13. World Biological 1,3-Propanediol (PDO) Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (Tons)

Table 14. World Biological 1,3-Propanediol (PDO) Consumption by Region (2018-2023) & (Tons)

Table 15. World Biological 1,3-Propanediol (PDO) Consumption Forecast by Region (2024-2029) & (Tons)

Table 16. World Biological 1,3-Propanediol (PDO) Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key Biological 1,3-Propanediol (PDO) Producers in 2022

Table 18. World Biological 1,3-Propanediol (PDO) Production by Manufacturer (2018-2023) & (Tons)

Table 19. Production Market Share of Key Biological 1,3-Propanediol (PDO) Producers in 2022

Table 20. World Biological 1,3-Propanediol (PDO) Average Price by Manufacturer (2018-2023) & (US\$/Ton)

Table 21. Global Biological 1,3-Propanediol (PDO) Company Evaluation Quadrant

Table 22. World Biological 1,3-Propanediol (PDO) Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and Biological 1,3-Propanediol (PDO) Production Site of Key Manufacturer

Table 24. Biological 1,3-Propanediol (PDO) Market: Company Product Type Footprint

Table 25. Biological 1,3-Propanediol (PDO) Market: Company Product Application Footprint

Table 26. Biological 1,3-Propanediol (PDO) Competitive Factors

Table 27. Biological 1,3-Propanediol (PDO) New Entrant and Capacity Expansion Plans

Table 28. Biological 1,3-Propanediol (PDO) Mergers & Acquisitions Activity

Table 29. United States VS China Biological 1,3-Propanediol (PDO) Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China Biological 1,3-Propanediol (PDO) Production Comparison, (2018 & 2022 & 2029) & (Tons)

Table 31. United States VS China Biological 1,3-Propanediol (PDO) Consumption Comparison, (2018 & 2022 & 2029) & (Tons)

Table 32. United States Based Biological 1,3-Propanediol (PDO) Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Biological 1,3-Propanediol (PDO) Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers Biological 1,3-Propanediol (PDO) Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers Biological 1,3-Propanediol (PDO) Production (2018-2023) & (Tons)

Table 36. United States Based Manufacturers Biological 1,3-Propanediol (PDO) Production Market Share (2018-2023)

Table 37. China Based Biological 1,3-Propanediol (PDO) Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Biological 1,3-Propanediol (PDO) Production Value, (2018-2023) & (USD Million)

Table 39. China Based Manufacturers Biological 1,3-Propanediol (PDO) Production Value Market Share (2018-2023)

Table 40. China Based Manufacturers Biological 1,3-Propanediol (PDO) Production (2018-2023) & (Tons)

Table 41. China Based Manufacturers Biological 1,3-Propanediol (PDO) Production Market Share (2018-2023)

Table 42. Rest of World Based Biological 1,3-Propanediol (PDO) Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers Biological 1,3-Propanediol (PDO) Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers Biological 1,3-Propanediol (PDO) Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers Biological 1,3-Propanediol (PDO) Production (2018-2023) & (Tons)

Table 46. Rest of World Based Manufacturers Biological 1,3-Propanediol (PDO) Production Market Share (2018-2023)

Table 47. World Biological 1,3-Propanediol (PDO) Production Value by Type, (USD Million), 2018 & 2022 & 2029

Table 48. World Biological 1,3-Propanediol (PDO) Production by Type (2018-2023) & (Tons)

Table 49. World Biological 1,3-Propanediol (PDO) Production by Type (2024-2029) & (Tons)

Table 50. World Biological 1,3-Propanediol (PDO) Production Value by Type (2018-2023) & (USD Million)

Table 51. World Biological 1,3-Propanediol (PDO) Production Value by Type (2024-2029) & (USD Million)

Table 52. World Biological 1,3-Propanediol (PDO) Average Price by Type (2018-2023) & (US\$/Ton)

Table 53. World Biological 1,3-Propanediol (PDO) Average Price by Type (2024-2029) & (US\$/Ton)

Table 54. World Biological 1,3-Propanediol (PDO) Production Value by Application, (USD Million), 2018 & 2022 & 2029

Table 55. World Biological 1,3-Propanediol (PDO) Production by Application (2018-2023) & (Tons)

Table 56. World Biological 1,3-Propanediol (PDO) Production by Application (2024-2029) & (Tons)

Table 57. World Biological 1,3-Propanediol (PDO) Production Value by Application (2018-2023) & (USD Million)

Table 58. World Biological 1,3-Propanediol (PDO) Production Value by Application (2024-2029) & (USD Million)

Table 59. World Biological 1,3-Propanediol (PDO) Average Price by Application (2018-2023) & (US\$/Ton)

Table 60. World Biological 1,3-Propanediol (PDO) Average Price by Application

(2024-2029) & (US\$/Ton)

Table 61. DuPont Basic Information, Manufacturing Base and Competitors

Table 62. DuPont Major Business

Table 63. DuPont Biological 1,3-Propanediol (PDO) Product and Services

Table 64. DuPont Biological 1,3-Propanediol (PDO) Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. DuPont Recent Developments/Updates

Table 66. DuPont Competitive Strengths & Weaknesses

Table 67. METabolic EXplorer Basic Information, Manufacturing Base and Competitors

Table 68. METabolic EXplorer Major Business

Table 69. METabolic EXplorer Biological 1,3-Propanediol (PDO) Product and Services

Table 70. METabolic EXplorer Biological 1,3-Propanediol (PDO) Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. METabolic EXplorer Recent Developments/Updates

Table 72. METabolic EXplorer Competitive Strengths & Weaknesses

Table 73. Zhangjiagang Glory Chemical Industry Basic Information, Manufacturing Base and Competitors

Table 74. Zhangjiagang Glory Chemical Industry Major Business

Table 75. Zhangjiagang Glory Chemical Industry Biological 1,3-Propanediol (PDO) Product and Services

Table 76. Zhangjiagang Glory Chemical Industry Biological 1,3-Propanediol (PDO) Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Zhangjiagang Glory Chemical Industry Recent Developments/Updates

Table 78. Zhangjiagang Glory Chemical Industry Competitive Strengths & Weaknesses

Table 79. Jiangsu Eastern Shenghong Basic Information, Manufacturing Base and Competitors

Table 80. Jiangsu Eastern Shenghong Major Business

Table 81. Jiangsu Eastern Shenghong Biological 1,3-Propanediol (PDO) Product and Services

Table 82. Jiangsu Eastern Shenghong Biological 1,3-Propanediol (PDO) Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 83. Jiangsu Eastern Shenghong Recent Developments/Updates

Table 84. Guangdong Tsinghua Smart Biotech Basic Information, Manufacturing Base and Competitors

Table 85. Guangdong Tsinghua Smart Biotech Major Business

Table 86. Guangdong Tsinghua Smart Biotech Biological 1,3-Propanediol (PDO) Product and Services

Table 87. Guangdong Tsinghua Smart Biotech Biological 1,3-Propanediol (PDO) Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 88. Global Key Players of Biological 1,3-Propanediol (PDO) Upstream (Raw Materials)

Table 89. Biological 1,3-Propanediol (PDO) Typical Customers

Table 90. Biological 1,3-Propanediol (PDO) Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Biological 1,3-Propanediol (PDO) Picture

Figure 2. World Biological 1,3-Propanediol (PDO) Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World Biological 1,3-Propanediol (PDO) Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World Biological 1,3-Propanediol (PDO) Production (2018-2029) & (Tons)

Figure 5. World Biological 1,3-Propanediol (PDO) Average Price (2018-2029) & (US\$/Ton)

Figure 6. World Biological 1,3-Propanediol (PDO) Production Value Market Share by Region (2018-2029)

Figure 7. World Biological 1,3-Propanediol (PDO) Production Market Share by Region (2018-2029)

Figure 8. North America Biological 1,3-Propanediol (PDO) Production (2018-2029) & (Tons)

Figure 9. Europe Biological 1,3-Propanediol (PDO) Production (2018-2029) & (Tons)

Figure 10. China Biological 1,3-Propanediol (PDO) Production (2018-2029) & (Tons)

Figure 11. Japan Biological 1,3-Propanediol (PDO) Production (2018-2029) & (Tons)

Figure 12. Biological 1,3-Propanediol (PDO) Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Biological 1,3-Propanediol (PDO) Consumption (2018-2029) & (Tons)

Figure 15. World Biological 1,3-Propanediol (PDO) Consumption Market Share by Region (2018-2029)

Figure 16. United States Biological 1,3-Propanediol (PDO) Consumption (2018-2029) & (Tons)

Figure 17. China Biological 1,3-Propanediol (PDO) Consumption (2018-2029) & (Tons)

Figure 18. Europe Biological 1,3-Propanediol (PDO) Consumption (2018-2029) & (Tons)

Figure 19. Japan Biological 1,3-Propanediol (PDO) Consumption (2018-2029) & (Tons)

Figure 20. South Korea Biological 1,3-Propanediol (PDO) Consumption (2018-2029) & (Tons)

Figure 21. ASEAN Biological 1,3-Propanediol (PDO) Consumption (2018-2029) & (Tons)

Figure 22. India Biological 1,3-Propanediol (PDO) Consumption (2018-2029) & (Tons)

Figure 23. Producer Shipments of Biological 1,3-Propanediol (PDO) by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 24. Global Four-firm Concentration Ratios (CR4) for Biological 1,3-Propanediol (PDO) Markets in 2022

Figure 25. Global Four-firm Concentration Ratios (CR8) for Biological 1,3-Propanediol (PDO) Markets in 2022

Figure 26. United States VS China: Biological 1,3-Propanediol (PDO) Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 27. United States VS China: Biological 1,3-Propanediol (PDO) Production Market Share Comparison (2018 & 2022 & 2029)

Figure 28. United States VS China: Biological 1,3-Propanediol (PDO) Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States Based Manufacturers Biological 1,3-Propanediol (PDO) Production Market Share 2022

Figure 30. China Based Manufacturers Biological 1,3-Propanediol (PDO) Production Market Share 2022

Figure 31. Rest of World Based Manufacturers Biological 1,3-Propanediol (PDO) Production Market Share 2022

Figure 32. World Biological 1,3-Propanediol (PDO) Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 33. World Biological 1,3-Propanediol (PDO) Production Value Market Share by Type in 2022

Figure 34. Industrial Grade

Figure 35. Pharmaceutical Grade

Figure 36. World Biological 1,3-Propanediol (PDO) Production Market Share by Type (2018-2029)

Figure 37. World Biological 1,3-Propanediol (PDO) Production Value Market Share by Type (2018-2029)

Figure 38. World Biological 1,3-Propanediol (PDO) Average Price by Type (2018-2029) & (US\$/Ton)

Figure 39. World Biological 1,3-Propanediol (PDO) Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 40. World Biological 1,3-Propanediol (PDO) Production Value Market Share by Application in 2022

Figure 41. PTT & Polyurethane

Figure 42. Cosmetic

Figure 43. Pharmaceutical

Figure 44. Other

Figure 45. World Biological 1,3-Propanediol (PDO) Production Market Share by Application (2018-2029)

Figure 46. World Biological 1,3-Propanediol (PDO) Production Value Market Share by

Application (2018-2029)

Figure 47. World Biological 1,3-Propanediol (PDO) Average Price by Application (2018-2029) & (US\$/Ton)

Figure 48. Biological 1,3-Propanediol (PDO) Industry Chain

Figure 49. Biological 1,3-Propanediol (PDO) Procurement Model

Figure 50. Biological 1,3-Propanediol (PDO) Sales Model

Figure 51. Biological 1,3-Propanediol (PDO) Sales Channels, Direct Sales, and Distribution

Figure 52. Methodology

Figure 53. Research Process and Data Source

I would like to order

Product name: Global Biological 1,3-Propanediol (PDO) Supply, Demand and Key Producers, 2023-2029

Product link: <https://marketpublishers.com/r/G5BC1851ABDBEN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G5BC1851ABDBEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970