

Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Bio-based 1,3-Butanediol Market 2018, Forecast to 2023

https://marketpublishers.com/r/GC46ADF5A61EN.html

Date: June 2018

Pages: 115

Price: US\$ 4,880.00 (Single User License)

ID: GC46ADF5A61EN

Abstracts

Bio-based 1, 3-butanediol (1, 3-butylene glycol, butane-1,3-diol, or 1,3-dihydroxybutane) is a type of diol that is made by microorganism fermentation.

SCOPE OF THE REPORT:

This report focuses on the Bio-based 1,3-Butanediol in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application. Kokyu Alcohol, Godavari are the main suppliers in the world currently. And the main players shared about 80% of the global market. There are few companies to produce bio-based 1,3-butanediol.

Despite the presence of competition problems, the global recovery trend is clear, Bio-based 1,3-Butanediol retains its advantage in many areas, investors are still optimistic about this area; the future will still have more new investment enter the field. Although sales of Bio-based 1,3-Butanediol brought a lot of opportunity, the study group recommends the new entrants just having money but without technical advantage and downstream support do not to enter into the Bio-based 1,3-Butanediol field.

The worldwide market for Bio-based 1,3-Butanediol is expected to grow at a CAGR of roughly 6.3% over the next five years, will reach 1 million US\$ in 2023, from 1 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Kokyu Alcohol



Godavari

Others

Market Segment by Regions, regional analysis covers North America (United States, Canada and Mexico) Europe (Germany, France, UK, Russia and Italy) Asia-Pacific (China, Japan, Korea, India and Southeast Asia) South America (Brazil, Argentina, Colombia etc.) Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa) Market Segment by Type, covers Industrial Grade Cosmetic Grade Market Segment by Applications, can be divided into Cosmetic Polyester Resins **Plasticizers** Aerospace Food



There are 15 Chapters to deeply display the global Bio-based 1,3-Butanediol market.

Chapter 1, to describe Bio-based 1,3-Butanediol Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Bio-based 1,3-Butanediol, with sales, revenue, and price of Bio-based 1,3-Butanediol, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Bio-based 1,3-Butanediol, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Bio-based 1,3-Butanediol market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Bio-based 1,3-Butanediol sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source



Contents

1 MARKET OVERVIEW

- 1.1 Bio-based 1,3-Butanediol Introduction
- 1.2 Market Analysis by Type
 - 1.2.1 Industrial Grade
 - 1.2.2 Cosmetic Grade
- 1.3 Market Analysis by Applications
 - 1.3.1 Cosmetic
 - 1.3.2 Polyester Resins
 - 1.3.3 Plasticizers
 - 1.3.4 Aerospace
 - 1.3.5 Food
 - 1.3.6 Others
- 1.4 Market Analysis by Regions
- 1.4.1 North America (United States, Canada and Mexico)
 - 1.4.1.1 United States Market States and Outlook (2013-2023)
 - 1.4.1.2 Canada Market States and Outlook (2013-2023)
 - 1.4.1.3 Mexico Market States and Outlook (2013-2023)
- 1.4.2 Europe (Germany, France, UK, Russia and Italy)
 - 1.4.2.1 Germany Market States and Outlook (2013-2023)
 - 1.4.2.2 France Market States and Outlook (2013-2023)
 - 1.4.2.3 UK Market States and Outlook (2013-2023)
 - 1.4.2.4 Russia Market States and Outlook (2013-2023)
 - 1.4.2.5 Italy Market States and Outlook (2013-2023)
- 1.4.3 Asia-Pacific (China, Japan, Korea, India and Southeast Asia)
 - 1.4.3.1 China Market States and Outlook (2013-2023)
 - 1.4.3.2 Japan Market States and Outlook (2013-2023)
 - 1.4.3.3 Korea Market States and Outlook (2013-2023)
 - 1.4.3.4 India Market States and Outlook (2013-2023)
- 1.4.3.5 Southeast Asia Market States and Outlook (2013-2023)
- 1.4.4 South America, Middle East and Africa
 - 1.4.4.1 Brazil Market States and Outlook (2013-2023)
 - 1.4.4.2 Egypt Market States and Outlook (2013-2023)
 - 1.4.4.3 Saudi Arabia Market States and Outlook (2013-2023)
 - 1.4.4.4 South Africa Market States and Outlook (2013-2023)
 - 1.4.4.5 Nigeria Market States and Outlook (2013-2023)
- 1.5 Market Dynamics



- 1.5.1 Market Opportunities
- 1.5.2 Market Risk
- 1.5.3 Market Driving Force

2 MANUFACTURERS PROFILES

- 2.1 Kokyu Alcohol
 - 2.1.1 Business Overview
 - 2.1.1.1 Kokyu Alcohol Description
 - 2.1.1.2 Kokyu Alcohol Headquarter, Main Business and Finance Overview
 - 2.1.2 Kokyu Alcohol Bio-based 1,3-Butanediol Product Introduction
- 2.1.2.1 Bio-based 1,3-Butanediol Production Bases, Sales Regions and Major Competitors
 - 2.1.2.2 Bio-based 1,3-Butanediol Product Information
- 2.1.3 Kokyu Alcohol Bio-based 1,3-Butanediol Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.1.3.1 Kokyu Alcohol Bio-based 1,3-Butanediol Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.1.3.2 Global Kokyu Alcohol Bio-based 1,3-Butanediol Market Share in 2017 2.2 Godavari
 - 2.2.1 Business Overview
 - 2.2.1.1 Godavari Description
 - 2.2.1.2 Godavari Headquarter, Main Business and Finance Overview
 - 2.2.2 Godavari Bio-based 1,3-Butanediol Product Introduction
- 2.2.2.1 Bio-based 1,3-Butanediol Production Bases, Sales Regions and Major Competitors
 - 2.2.2.2 Bio-based 1,3-Butanediol Product Information
- 2.2.3 Godavari Bio-based 1,3-Butanediol Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.2.3.1 Godavari Bio-based 1,3-Butanediol Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
 - 2.2.3.2 Global Godavari Bio-based 1,3-Butanediol Market Share in 2017

3 GLOBAL BIO-BASED 1,3-BUTANEDIOL MARKET COMPETITION, BY MANUFACTURER

- 3.1 Global Bio-based 1,3-Butanediol Sales and Market Share by Manufacturer (2016-2017)
- 3.2 Global Bio-based 1,3-Butanediol Revenue and Market Share by Manufacturer



(2016-2017)

- 3.3 Global Bio-based 1,3-Butanediol Price by Manufacturer (2016-2017)
- 3.4 Market Concentration Rate
- 3.4.1 Top 3 Bio-based 1,3-Butanediol Manufacturer Market Share in 2017
- 3.4.2 Top 5 Bio-based 1,3-Butanediol Manufacturer Market Share in 2017
- 3.5 Market Competition Trend

4 GLOBAL BIO-BASED 1,3-BUTANEDIOL MARKET ANALYSIS BY REGIONS

- 4.1 Global Bio-based 1,3-Butanediol Sales, Revenue and Market Share by Regions
 - 4.1.1 Global Bio-based 1,3-Butanediol Sales by Regions (2013-2018)
- 4.1.2 Global Bio-based 1,3-Butanediol Revenue by Regions (2013-2018)
- 4.2 North America Bio-based 1,3-Butanediol Sales, Revenue and Growth Rate (2013-2018)
- 4.3 Europe Bio-based 1,3-Butanediol Sales, Revenue and Growth Rate (2013-2018)
- 4.4 Asia-Pacific Bio-based 1,3-Butanediol Sales, Revenue and Growth Rate (2013-2018)
- 4.5 South America Bio-based 1,3-Butanediol Sales, Revenue and Growth Rate (2013-2018)
- 4.6 Middle East and Africa Bio-based 1,3-Butanediol Sales, Revenue and Growth Rate (2013-2018)

5 NORTH AMERICA BIO-BASED 1,3-BUTANEDIOL BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS

- 5.1 North America Bio-based 1,3-Butanediol Sales, Revenue and Market Share by Countries
 - 5.1.1 North America Bio-based 1,3-Butanediol Sales by Countries (2013-2018)
 - 5.1.2 North America Bio-based 1,3-Butanediol Revenue by Countries (2013-2018)
 - 5.1.3 United States Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
 - 5.1.4 Canada Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
 - 5.1.5 Mexico Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
- 5.2 North America Bio-based 1,3-Butanediol Sales and Revenue (Value) by Manufacturers (2016-2017)
 - 5.2.1 North America Bio-based 1,3-Butanediol Sales by Manufacturers (2016-2017)
 - 5.2.2 North America Bio-based 1,3-Butanediol Revenue by Manufacturers (2016-2017)
- 5.3 North America Bio-based 1,3-Butanediol Sales, Revenue and Market Share by Type (2013-2018)
 - 5.3.1 North America Bio-based 1,3-Butanediol Sales and Sales Share by Type



(2013-2018)

- 5.3.2 North America Bio-based 1,3-Butanediol Revenue and Revenue Share by Type (2013-2018)
- 5.4 North America Bio-based 1,3-Butanediol Sales, Revenue and Market Share by Application (2013-2018)
- 5.4.1 North America Bio-based 1,3-Butanediol Sales and Sales Share by Application (2013-2018)
- 5.4.2 North America Bio-based 1,3-Butanediol Revenue and Revenue Share by Application (2013-2018)

6 EUROPE BIO-BASED 1,3-BUTANEDIOL BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS

- 6.1 Europe Bio-based 1,3-Butanediol Sales, Revenue and Market Share by Countries
 - 6.1.1 Europe Bio-based 1,3-Butanediol Sales by Countries (2013-2018)
 - 6.1.2 Europe Bio-based 1,3-Butanediol Revenue by Countries (2013-2018)
 - 6.1.3 Germany Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
 - 6.1.4 UK Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
 - 6.1.5 France Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
 - 6.1.6 Russia Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
 - 6.1.7 Italy Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
- 6.2 Europe Bio-based 1,3-Butanediol Sales and Revenue (Value) by Manufacturers (2016-2017)
 - 6.2.1 Europe Bio-based 1,3-Butanediol Sales by Manufacturers (2016-2017)
- 6.2.2 Europe Bio-based 1,3-Butanediol Revenue by Manufacturers (2016-2017)
- 6.3 Europe Bio-based 1,3-Butanediol Sales, Revenue and Market Share by Type (2013-2018)
 - 6.3.1 Europe Bio-based 1,3-Butanediol Sales and Sales Share by Type (2013-2018)
- 6.3.2 Europe Bio-based 1,3-Butanediol Revenue and Revenue Share by Type (2013-2018)
- 6.4 Europe Bio-based 1,3-Butanediol Sales, Revenue and Market Share by Application (2013-2018)
- 6.4.1 Europe Bio-based 1,3-Butanediol Sales and Sales Share by Application (2013-2018)
- 6.4.2 Europe Bio-based 1,3-Butanediol Revenue and Revenue Share by Application (2013-2018)

7 ASIA-PACIFIC BIO-BASED 1,3-BUTANEDIOL BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS



- 7.1 Asia-Pacific Bio-based 1,3-Butanediol Sales, Revenue and Market Share by Countries
 - 7.1.1 Asia-Pacific Bio-based 1,3-Butanediol Sales by Countries (2013-2018)
 - 7.1.2 Asia-Pacific Bio-based 1,3-Butanediol Revenue by Countries (2013-2018)
 - 7.1.3 China Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
 - 7.1.4 Japan Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
 - 7.1.5 Korea Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
 - 7.1.6 India Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
- 7.1.7 Southeast Asia Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
- 7.2 Asia-Pacific Bio-based 1,3-Butanediol Sales and Revenue (Value) by Manufacturers (2016-2017)
- 7.2.1 Asia-Pacific Bio-based 1,3-Butanediol Sales by Manufacturers (2016-2017)
- 7.2.2 Asia-Pacific Bio-based 1,3-Butanediol Revenue by Manufacturers (2016-2017)
- 7.3 Asia-Pacific Bio-based 1,3-Butanediol Sales, Revenue and Market Share by Type (2013-2018)
- 7.3.1 Asia-Pacific Bio-based 1,3-Butanediol Sales and Sales Share by Type (2013-2018)
- 7.3.2 Asia-Pacific Bio-based 1,3-Butanediol Revenue and Revenue Share by Type (2013-2018)
- 7.4 Asia-Pacific Bio-based 1,3-Butanediol Sales, Revenue and Market Share by Application (2013-2018)
- 7.4.1 Asia-Pacific Bio-based 1,3-Butanediol Sales and Sales Share by Application (2013-2018)
- 7.4.2 Asia-Pacific Bio-based 1,3-Butanediol Revenue and Revenue Share by Application (2013-2018)

8 SOUTH AMERICA BIO-BASED 1,3-BUTANEDIOL BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS

- 8.1 South America Bio-based 1,3-Butanediol Sales, Revenue and Market Share by Countries
 - 8.1.1 South America Bio-based 1,3-Butanediol Sales by Countries (2013-2018)
 - 8.1.2 South America Bio-based 1,3-Butanediol Revenue by Countries (2013-2018)
 - 8.1.3 Brazil Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
 - 8.1.4 Argentina Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
 - 8.1.5 Colombia Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
- 8.2 South America Bio-based 1,3-Butanediol Sales and Revenue (Value) by Manufacturers (2016-2017)



- 8.2.1 South America Bio-based 1,3-Butanediol Sales by Manufacturers (2016-2017)
- 8.2.2 South America Bio-based 1,3-Butanediol Revenue by Manufacturers (2016-2017)
- 8.3 South America Bio-based 1,3-Butanediol Sales, Revenue and Market Share by Type (2013-2018)
- 8.3.1 South America Bio-based 1,3-Butanediol Sales and Sales Share by Type (2013-2018)
- 8.3.2 South America Bio-based 1,3-Butanediol Revenue and Revenue Share by Type (2013-2018)
- 8.4 South America Bio-based 1,3-Butanediol Sales, Revenue and Market Share by Application (2013-2018)
- 8.4.1 South America Bio-based 1,3-Butanediol Sales and Sales Share by Application (2013-2018)
- 8.4.2 South America Bio-based 1,3-Butanediol Revenue and Revenue Share by Application (2013-2018)

9 MIDDLE EAST AND AFRICA BIO-BASED 1,3-BUTANEDIOL BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS

- 9.1 Middle East and Africa Bio-based 1,3-Butanediol Sales, Revenue and Market Share by Countries
 - 9.1.1 Middle East and Africa Bio-based 1,3-Butanediol Sales by Countries (2013-2018)
- 9.1.2 Middle East and Africa Bio-based 1,3-Butanediol Revenue by Countries (2013-2018)
 - 9.1.3 Saudi Arabia Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
 - 9.1.4 UAE Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
 - 9.1.5 Egypt Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
 - 9.1.6 Nigeria Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
 - 9.1.7 South Africa Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)
- 9.2 Middle East and Africa Bio-based 1,3-Butanediol Sales and Revenue (Value) by Manufacturers (2016-2017)
- 9.2.1 Middle East and Africa Bio-based 1,3-Butanediol Sales by Manufacturers (2016-2017)
- 9.2.2 Middle East and Africa Bio-based 1,3-Butanediol Revenue by Manufacturers (2016-2017)
- 9.3 Middle East and Africa Bio-based 1,3-Butanediol Sales, Revenue and Market Share by Type (2013-2018)
- 9.3.1 Middle East and Africa Bio-based 1,3-Butanediol Sales and Sales Share by Type (2013-2018)



- 9.3.1 Middle East and Africa Bio-based 1,3-Butanediol Revenue and Revenue Share by Type (2013-2018)
- 9.4 Middle East and Africa Bio-based 1,3-Butanediol Sales, Revenue and Market Share by Application (2013-2018)
- 9.4.1 Middle East and Africa Bio-based 1,3-Butanediol Sales and Sales Share by Application (2013-2018)
- 9.4.2 Middle East and Africa Bio-based 1,3-Butanediol Revenue and Revenue Share by Application (2013-2018)

10 GLOBAL BIO-BASED 1,3-BUTANEDIOL MARKET SEGMENT BY TYPE

- 10.1 Global Bio-based 1,3-Butanediol Sales, Revenue and Market Share by Type (2013-2018)
 - 10.1.1 Global Bio-based 1,3-Butanediol Sales and Market Share by Type (2013-2018)
- 10.1.2 Global Bio-based 1,3-Butanediol Revenue and Market Share by Type (2013-2018)
- 10.2 Industrial Grade Sales Growth and Price
 - 10.2.1 Global Industrial Grade Sales Growth (2013-2018)
- 10.2.2 Global Industrial Grade Price (2013-2018)
- 10.3 Cosmetic Grade Sales Growth and Price
 - 10.3.1 Global Cosmetic Grade Sales Growth (2013-2018)
 - 10.3.2 Global Cosmetic Grade Price (2013-2018)

11 GLOBAL BIO-BASED 1,3-BUTANEDIOL MARKET SEGMENT BY APPLICATION

- 11.1 Global Bio-based 1,3-Butanediol Sales Market Share by Application (2013-2018)
- 11.2 Cosmetic Sales Growth (2013-2018)
- 11.3 Polyester Resins Sales Growth (2013-2018)
- 11.4 Plasticizers Sales Growth (2013-2018)
- 11.5 Aerospace Sales Growth (2013-2018)
- 11.6 Food Sales Growth (2013-2018)
- 11.7 Others Sales Growth (2013-2018)

12 BIO-BASED 1,3-BUTANEDIOL MARKET FORECAST (2018-2023)

- 12.1 Global Bio-based 1,3-Butanediol Sales, Revenue and Growth Rate (2018-2023)
- 12.2 Bio-based 1,3-Butanediol Market Forecast by Regions (2018-2023)
 - 12.2.1 North America Bio-based 1,3-Butanediol Market Forecast (2018-2023)
 - 12.2.2 Europe Bio-based 1,3-Butanediol Market Forecast (2018-2023)



- 12.2.3 Asia-Pacific Bio-based 1,3-Butanediol Market Forecast (2018-2023)
- 12.2.4 South America Bio-based 1,3-Butanediol Market Forecast (2018-2023)
- 12.2.5 Middle East and Africa Bio-based 1,3-Butanediol Market Forecast (2018-2023)
- 12.3 Bio-based 1,3-Butanediol Market Forecast by Type (2018-2023)
 - 12.3.1 Global Bio-based 1,3-Butanediol Sales Forecast by Type (2018-2023)
- 12.3.2 Global Bio-based 1,3-Butanediol Market Share Forecast by Type (2018-2023)
- 12.4 Bio-based 1,3-Butanediol Market Forecast by Application (2018-2023)
 - 12.4.1 Global Bio-based 1,3-Butanediol Sales Forecast by Application (2018-2023)
- 12.4.2 Global Bio-based 1,3-Butanediol Market Share Forecast by Application (2018-2023)

13 SALES CHANNEL, DISTRIBUTORS, TRADERS AND DEALERS

- 13.1 Sales Channel
 - 13.1.1 Direct Marketing
 - 13.1.2 Indirect Marketing
 - 13.1.3 Marketing Channel Future Trend
- 13.2 Distributors, Traders and Dealers

14 RESEARCH FINDINGS AND CONCLUSION

15 APPENDIX

- 15.1 Methodology
- 15.2 Data Source



List Of Tables

LIST OF TABLES AND FIGURES

Figure Bio-based 1,3-Butanediol Picture

Table Product Specifications of Bio-based 1,3-Butanediol

Figure Global Bio-based 1,3-Butanediol CAGR (%), Y-o-Y Growth (&) and Market Size, 2013-2023 (USD Million)

Figure Global Bio-based 1,3-Butanediol CAGR (%), Y-o-Y Growth (&) and Market Size, 2013-2023 (Sales)

Figure Global Sales Market Share of Bio-based 1,3-Butanediol by Types in 2017

Figure Industrial Grade Picture

Table Major Manufacturers of Industrial Grade

Figure Cosmetic Grade Picture

Table Major Manufacturers of Cosmetic Grade

Figure Bio-based 1,3-Butanediol Sales Market Share by Applications in 2017

Figure Cosmetic Picture

Figure Polyester Resins Picture

Figure Plasticizers Picture

Figure Aerospace Picture

Figure Food Picture

Figure Others Picture

Figure United States Bio-based 1,3-Butanediol Revenue (Value) and Growth Rate (2013-2023)

Figure Canada Bio-based 1,3-Butanediol Revenue (Value) and Growth Rate (2013-2023)

Figure Mexico Bio-based 1,3-Butanediol Revenue (Value) and Growth Rate (2013-2023)

Figure Germany Bio-based 1,3-Butanediol Revenue (Value) and Growth Rate (2013-2023)

Figure France Bio-based 1,3-Butanediol Revenue (Value) and Growth Rate (2013-2023)

Figure UK Bio-based 1,3-Butanediol Revenue (Value) and Growth Rate (2013-2023)

Figure Russia Bio-based 1,3-Butanediol Revenue (Value) and Growth Rate (2013-2023)

Figure Italy Bio-based 1,3-Butanediol Revenue (Value) and Growth Rate (2013-2023)

Figure China Bio-based 1,3-Butanediol Revenue (Value) and Growth Rate (2013-2023)

Figure Japan Bio-based 1,3-Butanediol Revenue (Value) and Growth Rate (2013-2023)

Figure Korea Bio-based 1,3-Butanediol Revenue (Value) and Growth Rate (2013-2023)



Figure India Bio-based 1,3-Butanediol Revenue (Value) and Growth Rate (2013-2023) Figure Southeast Asia Bio-based 1,3-Butanediol Revenue (Value) and Growth Rate (2013-2023)

Figure Brazil Bio-based 1,3-Butanediol Revenue (Value) and Growth Rate (2013-2023) Figure Egypt Bio-based 1,3-Butanediol Revenue (Value) and Growth Rate (2013-2023) Figure Saudi Arabia Bio-based 1,3-Butanediol Revenue (Value) and Growth Rate (2013-2023)

Figure South Africa Bio-based 1,3-Butanediol Revenue (Value) and Growth Rate (2013-2023)

Figure Nigeria Bio-based 1,3-Butanediol Revenue (Value) and Growth Rate (2013-2023)

Table Kokyu Alcohol Headquarter, Established, Main Business and Finance Overview (2017)

Table Kokyu Alcohol Bio-based 1,3-Butanediol Production Bases, Sales Regions and Major Competitors

Table Kokyu Alcohol Bio-based 1,3-Butanediol Product

Table Kokyu Alcohol Bio-based 1,3-Butanediol Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Kokyu Alcohol Bio-based 1,3-Butanediol Sales Market Share in 2017 Figure Global Kokyu Alcohol Bio-based 1,3-Butanediol Revenue Market Share in 2017 Table Godavari Headquarter, Established, Main Business and Finance Overview (2017) Table Godavari Bio-based 1,3-Butanediol Production Bases, Sales Regions and Major Competitors

Table Godavari Bio-based 1,3-Butanediol Product

Table Godavari Bio-based 1,3-Butanediol Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Godavari Bio-based 1,3-Butanediol Sales Market Share in 2017 Figure Global Godavari Bio-based 1,3-Butanediol Revenue Market Share in 2017

Table Global Bio-based 1,3-Butanediol Sales by Manufacturer (2016-2017)

Figure Global Bio-based 1,3-Butanediol Sales Market Share by Manufacturer in 2016

Figure Global Bio-based 1,3-Butanediol Sales Market Share by Manufacturer in 2017

Table Global Bio-based 1,3-Butanediol Revenue by Manufacturer (2016-2017)

Figure Global Bio-based 1,3-Butanediol Revenue Market Share by Manufacturer in 2016

Figure Global Bio-based 1,3-Butanediol Revenue Market Share by Manufacturer in 2017

Table Global Bio-based 1,3-Butanediol Price by Manufacturer (2016-2017)

Figure Top 3 Bio-based 1,3-Butanediol Manufacturer (Revenue) Market Share in 2017

Figure Top 6 Bio-based 1,3-Butanediol Manufacturer (Revenue) Market Share in 2017



Figure Global Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure Global Bio-based 1,3-Butanediol Revenue and Growth Rate (2013-2018)

Table Global Bio-based 1,3-Butanediol Sales by Regions (2013-2018)

Table Global Bio-based 1,3-Butanediol Sales Market Share by Regions (2013-2018)

Table Global Bio-based 1,3-Butanediol Revenue by Regions (2013-2018)

Figure Global Bio-based 1,3-Butanediol Revenue Market Share by Regions in 2013

Figure Global Bio-based 1,3-Butanediol Revenue Market Share by Regions in 2017

Figure North America Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure North America Bio-based 1,3-Butanediol Revenue and Growth Rate (2013-2018)

Figure Europe Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure Europe Bio-based 1,3-Butanediol Revenue and Growth Rate (2013-2018)

Figure Asia-Pacific Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure Asia-Pacific Bio-based 1,3-Butanediol Revenue and Growth Rate (2013-2018)

Figure South America Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure South America Bio-based 1,3-Butanediol Revenue and Growth Rate (2013-2018)

Figure Middle East and Africa Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure Middle East and Africa Bio-based 1,3-Butanediol Revenue and Growth Rate (2013-2018)

Figure North America Bio-based 1,3-Butanediol Revenue and Growth Rate (2013-2018)

Table North America Bio-based 1,3-Butanediol Sales by Countries (2013-2018)

Table North America Bio-based 1,3-Butanediol Sales Market Share by Countries (2013-2018)

Figure North America Bio-based 1,3-Butanediol Sales Market Share by Countries in 2013

Figure North America Bio-based 1,3-Butanediol Sales Market Share by Countries in 2017

Table North America Bio-based 1,3-Butanediol Revenue by Countries (2013-2018) Table North America Bio-based 1,3-Butanediol Revenue Market Share by Countries (2013-2018)

Figure North America Bio-based 1,3-Butanediol Revenue Market Share by Countries in 2013

Figure North America Bio-based 1,3-Butanediol Revenue Market Share by Countries in 2017

Figure United States Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure Canada Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure Mexico Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Table North America Bio-based 1,3-Butanediol Sales by Manufacturer (2016-2017)



Figure North America Bio-based 1,3-Butanediol Sales Market Share by Manufacturer in 2016

Figure North America Bio-based 1,3-Butanediol Sales Market Share by Manufacturer in 2017

Table North America Bio-based 1,3-Butanediol Revenue by Manufacturer (2016-2017) Figure North America Bio-based 1,3-Butanediol Revenue Market Share by Manufacturer in 2016

Figure North America Bio-based 1,3-Butanediol Revenue Market Share by Manufacturer in 2017

Table North America Bio-based 1,3-Butanediol Sales by Type (2013-2018)

Table North America Bio-based 1,3-Butanediol Sales Share by Type (2013-2018)

Table North America Bio-based 1,3-Butanediol Revenue by Type (2013-2018)

Table North America Bio-based 1,3-Butanediol Revenue Share by Type (2013-2018)

Table North America Bio-based 1,3-Butanediol Sales by Application (2013-2018)

Table North America Bio-based 1,3-Butanediol Sales Share by Application (2013-2018)

Table North America Bio-based 1,3-Butanediol Revenue by Application (2013-2018)

Table North America Bio-based 1,3-Butanediol Revenue Share by Application (2013-2018)

Figure Europe Bio-based 1,3-Butanediol Revenue and Growth Rate (2013-2018)

Table Europe Bio-based 1,3-Butanediol Sales by Countries (2013-2018)

Table Europe Bio-based 1,3-Butanediol Sales Market Share by Countries (2013-2018)

Table Europe Bio-based 1,3-Butanediol Revenue by Countries (2013-2018)

Figure Europe Bio-based 1,3-Butanediol Revenue Market Share by Countries in 2016

Figure Europe Bio-based 1,3-Butanediol Revenue Market Share by Countries in 2017

Figure Germany Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure UK Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure France Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure Russia Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure Italy Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Table Europe Bio-based 1,3-Butanediol Sales by Manufacturer (2016-2017)

Figure Europe Bio-based 1,3-Butanediol Sales Market Share by Manufacturer in 2016

Figure Europe Bio-based 1,3-Butanediol Sales Market Share by Manufacturer in 2017

Table Europe Bio-based 1,3-Butanediol Revenue by Manufacturer (2016-2017)

Figure Europe Bio-based 1,3-Butanediol Revenue Market Share by Manufacturer in 2016

Figure Europe Bio-based 1,3-Butanediol Revenue Market Share by Manufacturer in 2017

Table Europe Bio-based 1,3-Butanediol Sales by Type (2013-2018)

Table Europe Bio-based 1,3-Butanediol Sales Share by Type (2013-2018)



Table Europe Bio-based 1,3-Butanediol Revenue by Type (2013-2018)

Table Europe Bio-based 1,3-Butanediol Revenue Share by Type (2013-2018)

Table Europe Bio-based 1,3-Butanediol Sales by Application (2013-2018)

Table Europe Bio-based 1,3-Butanediol Sales Share by Application (2013-2018)

Table Europe Bio-based 1,3-Butanediol Revenue by Application (2013-2018)

Table Europe Bio-based 1,3-Butanediol Revenue Share by Application (2013-2018)

Figure Asia-Pacific Bio-based 1,3-Butanediol Revenue and Growth Rate (2013-2018)

Table Asia-Pacific Bio-based 1,3-Butanediol Sales by Countries (2013-2018)

Table Asia-Pacific Bio-based 1,3-Butanediol Sales Market Share by Countries (2013-2018)

Figure Asia-Pacific Bio-based 1,3-Butanediol Sales Market Share by Countries 2017

Table Asia-Pacific Bio-based 1,3-Butanediol Revenue by Countries (2013-2018)

Figure Asia-Pacific Bio-based 1,3-Butanediol Revenue Market Share by Countries 2017

Figure China Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure Japan Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure Korea Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure India Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure Southeast Asia Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Table Asia-Pacific Bio-based 1,3-Butanediol Sales by Manufacturer (2016-2017)

Figure Asia-Pacific Bio-based 1,3-Butanediol Sales Market Share by Manufacturer in 2016

Figure Asia-Pacific Bio-based 1,3-Butanediol Sales Market Share by Manufacturer in 2017

Table Asia-Pacific Bio-based 1,3-Butanediol Revenue by Manufacturer (2016-2017)

Figure Asia-Pacific Bio-based 1,3-Butanediol Revenue Market Share by Manufacturer in 2016

Figure Asia-Pacific Bio-based 1,3-Butanediol Revenue Market Share by Manufacturer in 2017

Table Asia-Pacific Bio-based 1,3-Butanediol Sales by Type (2013-2018)

Table Asia-Pacific Bio-based 1,3-Butanediol Sales Share by Type (2013-2018)

Table Asia-Pacific Bio-based 1,3-Butanediol Revenue by Type (2013-2018)

Table Asia-Pacific Bio-based 1,3-Butanediol Revenue Share by Type (2013-2018)

Table Asia-Pacific Bio-based 1,3-Butanediol Sales by Application (2013-2018)

Table Asia-Pacific Bio-based 1,3-Butanediol Sales Share by Application (2013-2018)

Table Asia-Pacific Bio-based 1,3-Butanediol Revenue by Application (2013-2018)

Table Asia-Pacific Bio-based 1,3-Butanediol Revenue Share by Application (2013-2018)

Figure South America Bio-based 1,3-Butanediol Revenue and Growth Rate (2013-2018)

Table South America Bio-based 1,3-Butanediol Sales by Countries (2013-2018)



Table South America Bio-based 1,3-Butanediol Sales Market Share by Countries (2013-2018)

Figure South America Bio-based 1,3-Butanediol Sales Market Share by Countries in 2017

Table South America Bio-based 1,3-Butanediol Revenue by Countries (2013-2018) Table South America Bio-based 1,3-Butanediol Revenue Market Share by Countries (2013-2018)

Figure South America Bio-based 1,3-Butanediol Revenue Market Share by Countries in 2017

Figure Brazil Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure Argentina Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure Colombia Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Table South America Bio-based 1,3-Butanediol Sales by Manufacturer (2016-2017)

Figure South America Bio-based 1,3-Butanediol Sales Market Share by Manufacturer in 2016

Figure South America Bio-based 1,3-Butanediol Sales Market Share by Manufacturer in 2017

Table South America Bio-based 1,3-Butanediol Revenue by Manufacturer (2016-2017)

Figure South America Bio-based 1,3-Butanediol Revenue Market Share by Manufacturer in 2016

Figure South America Bio-based 1,3-Butanediol Revenue Market Share by Manufacturer in 2017

Table South America Bio-based 1,3-Butanediol Sales by Type (2013-2018)

Table South America Bio-based 1,3-Butanediol Sales Share by Type (2013-2018)

Table South America Bio-based 1,3-Butanediol Revenue by Type (2013-2018)

Table South America Bio-based 1,3-Butanediol Revenue Share by Type (2013-2018)

Table South America Bio-based 1,3-Butanediol Sales by Application (2013-2018)

Table South America Bio-based 1,3-Butanediol Sales Share by Application (2013-2018)

Table South America Bio-based 1,3-Butanediol Revenue by Application (2013-2018)

Table South America Bio-based 1,3-Butanediol Revenue Share by Application (2013-2018)

Figure Middle East and Africa Bio-based 1,3-Butanediol Revenue and Growth Rate (2013-2018)

Table Middle East and Africa Bio-based 1,3-Butanediol Sales by Countries (2013-2018) Table Middle East and Africa Bio-based 1,3-Butanediol Sales Market Share by Countries (2013-2018)

Figure Middle East and Africa Bio-based 1,3-Butanediol Sales Market Share by Countries in 2017

Table Middle East and Africa Bio-based 1,3-Butanediol Revenue by Countries



(2013-2018)

Table Middle East and Africa Bio-based 1,3-Butanediol Revenue Market Share by Countries (2013-2018)

Figure Middle East and Africa Bio-based 1,3-Butanediol Revenue Market Share by Countries in 2013

Figure Middle East and Africa Bio-based 1,3-Butanediol Revenue Market Share by Countries in 2017

Figure Saudi Arabia Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure UAE Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure Egypt Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure Nigeria Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Figure South Africa Bio-based 1,3-Butanediol Sales and Growth Rate (2013-2018)

Table Middle East and Africa Bio-based 1,3-Butanediol Sales by Manufacturer (2016-2017)

Figure Middle East and Africa Bio-based 1,3-Butanediol Sales Market Share by Manufacturer in 2016

Figure Middle East and Africa Bio-based 1,3-Butanediol Sales Market Share by Manufacturer in 2017

Table Middle East and Africa Bio-based 1,3-Butanediol Revenue by Manufacturer (2016-2017)

Figure Middle East and Africa Bio-based 1,3-Butanediol Revenue Market Share by Manufacturer in 2016

Figure Middle East and Africa Bio-based 1,3-Butanediol Revenue Market Share by Manufacturer in 2017

Table Middle East and Africa Bio-based 1,3-Butanediol Sales by Type (2013-2018) Table Middle East and Africa Bio-based 1,3-Butanediol Sales Share by Type (2013-2018)

Table Middle East and Africa Bio-based 1,3-Butanediol Revenue by Type (2013-2018) Table Middle East and Africa Bio-based 1,3-Butanediol Revenue Share by Type (2013-2018)

Table Middle East and Africa Bio-based 1,3-Butanediol Sales by Application (2013-2018)

Table Middle East and Africa Bio-based 1,3-Butanediol Sales Share by Application (2013-2018)

Table Middle East and Africa Bio-based 1,3-Butanediol Revenue by Application (2013-2018)

Table Middle East and Africa Bio-based 1,3-Butanediol Revenue Share by Application (2013-2018)

Table Global Bio-based 1,3-Butanediol Sales by Type (2013-2018)



Table Global Bio-based 1,3-Butanediol Sales Share by Type (2013-2018)

Table Global Bio-based 1,3-Butanediol Revenue by Type (2013-2018)

Table Global Bio-based 1,3-Butanediol Revenue Share by Type (2013-2018)

Figure Global Industrial Grade Sales Growth (2013-2018)

Figure Global Industrial Grade Price (2013-2018)

Figure Global Cosmetic Grade Sales Growth (2013-2018)

Figure Global Cosmetic Grade Price (2013-2018)

Table Global Bio-based 1,3-Butanediol Sales by Application (2013-2018)

Table Global Bio-based 1,3-Butanediol Sales Share by Application (2013-2018)

Figure Global Cosmetic Sales Growth (2013-2018)

Figure Global Polyester Resins Sales Growth (2013-2018)

Figure Global Plasticizers Sales Growth (2013-2018)

Figure Global Aerospace Sales Growth (2013-2018)

Figure Global Food Sales Growth (2013-2018)

Figure Global Others Sales Growth (2013-2018)

Figure Global Bio-based 1,3-Butanediol Sales, Revenue and Growth Rate (2018-2023)

Table Global Bio-based 1,3-Butanediol Sales Forecast by Regions (2018-2023)

Table Global Bio-based 1,3-Butanediol Market Share Forecast by Regions (2018-2023)

Figure North America Sales Bio-based 1,3-Butanediol Market Forecast (2018-2023)

Figure Europe Sales Bio-based 1,3-Butanediol Market Forecast (2018-2023)

Figure Asia-Pacific Sales Bio-based 1,3-Butanediol Market Forecast (2018-2023)

Figure South America Sales Bio-based 1,3-Butanediol Market Forecast (2018-2023)

Figure Middle East and Africa Sales Bio-based 1,3-Butanediol Market Forecast (2018-2023)

Table Global Bio-based 1,3-Butanediol Sales Forecast by Type (2018-2023)

Table Global Bio-based 1,3-Butanediol Market Share Forecast by Type (2018-2023)

Table Global Bio-based 1,3-Butanediol Sales Forecast by Application (2018-2023)

Table Global Bio-based 1,3-Butanediol Market Share Forecast by Application (2018-2023)

Table Distributors/Traders/ Dealers List



I would like to order

Product name: Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Bio-

based 1,3-Butanediol Market 2018, Forecast to 2023

Product link: https://marketpublishers.com/r/GC46ADF5A61EN.html

Price: US\$ 4,880.00 (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/GC46ADF5A61EN.html