

# Bio-based Monoethylene Glycol Global Market Insights 2026, Analysis and Forecast to 2031

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## Abstracts

Bio-based Monoethylene Glycol Market Summary

### 1. Industry Overview and Market Introduction

Bio-based Monoethylene Glycol (Bio-MEG), chemically identical to fossil-based Monoethylene Glycol (MEG) with the CAS Number 107-21-1, represents a critical segment in the transition towards renewable chemical value chains. As a 'drop-in' solution, Bio-MEG shares the exact physical and chemical properties of its petrochemical counterpart, allowing it to be utilized in existing manufacturing infrastructure without modification. It is a vital component in the production of bio-based polyethylene terephthalate (PET) for packaging and polyester fibers for textiles, as well as in coolants and antifreeze formulations.

The global market for Bio-based MEG is currently in a nascent but pivotal stage of commercialization. While the technology has existed for years, economic scalability and feedstock competition have historically limited its market share compared to the massive fossil-based MEG industry.

#### Market Size and Growth Forecast

The market is characterized by a relatively small revenue base with steady growth potential, constrained by production costs but driven by corporate sustainability mandates.

**Market Scale:** The global market size for Bio-based Monoethylene Glycol is estimated to range between 15 million USD and 30 million USD in 2026. This valuation reflects the

current limited commercial capacity and the premium pricing structure of bio-based chemicals.

**Growth Trajectory:** Looking ahead, the industry is projected to expand at a Compound Annual Growth Rate (CAGR) of 4.5% to 8.5% from 2026 through 2031. This growth profile suggests a market that is gradually moving from pilot-scale demonstrations to industrial-scale implementation, supported by new capacities coming online in the latter half of the decade.

### Current Market Characteristics

The Bio-MEG market is currently navigating a complex economic environment defined by two primary headwinds:

**Crude Oil Price Correlation:** The price of fossil-based MEG is intrinsically linked to crude oil and naphtha/ethane dynamics. In periods of low or stable crude oil prices, fossil MEG becomes significantly cheaper to produce. This creates a substantial 'green premium' for Bio-MEG, making it economically challenging for downstream buyers to switch without strong regulatory or consumer pressure.

**Policy Shifts favoring Recycled PET (rPET):** A significant structural challenge has emerged from policy shifts in major markets like Europe and the United States. Legislative frameworks are increasingly prioritizing the 'Circular Economy,' mandating specific percentages of recycled content (rPET) in packaging rather than bio-based virgin content. This has diverted investment and brand focus toward mechanical and chemical recycling technologies, creating headwinds for the Bio-MEG sector, which produces virgin material.

## 2. Production Technology and Feedstock Evolution

The production of Bio-MEG is evolving from first-generation fermentation routes to advanced catalytic processes that utilize non-food biomass.

### First-Generation Route: Bio-Ethanol to Ethylene

Currently, the only commercially established route at scale involves the dehydration of bio-ethanol (derived from sugarcane or corn) into bio-ethylene. This bio-ethylene is then oxidized to ethylene oxide and hydrolyzed to MEG.

Status: This technology is mature but capital-intensive due to the multiple processing steps.

Key Player: India Glycols Limited utilizes this pathway, leveraging India's abundant molasses and sugarcane feedstock to remain the world's first and primary commercial producer of Bio-MEG.

#### Second-Generation Route: Wood/Lignocellulosic Biomass

A major leap in technology is the direct conversion of woody biomass into biochemicals.

UPM Biochemicals: The company is nearing the completion of its flagship biorefinery in Leuna, Germany. This facility utilizes solid wood (beechwood) from sustainably managed forests. The wood is processed to yield sugars which are then converted into Bio-MEG, Bio-MPG (Monopropylene Glycol), and renewable functional fillers.

Timeline: UPM Biochemicals' facility is scheduled to be fully operational and ramping up production in 2026. This will mark a significant milestone as it introduces a non-food, wood-based MEG into the European market.

#### Next-Generation Route: Direct Sugar Hydrogenolysis

Newer technologies aim to bypass the ethanol intermediate step, converting sugars directly into glycols via catalysis (hydrogenolysis). This reduces energy consumption and improves yield.

Technip Energies & Shell: On June 27, 2024, Technip Energies and Shell Catalysts & Technologies announced a technology transfer agreement. This collaboration accelerates the commercialization of the Bio-2-Glycols™ technology, which converts glucose directly into Bio-MEG. This simplifies the process flow and potentially lowers the cost of production.

Avantium: The Dutch technology company is scaling up its Ray Technology™, which converts plant-based sugars into glycols. Their demonstration plant in Delfzijl, the Netherlands, opened in November 2019, proving the feasibility of this single-step direct conversion process.

#### Agricultural Waste Conversion (China)

China is actively developing technologies to utilize agricultural residues (straw) to address feedstock security and reduce reliance on imported food crops.

Sinosci Bio-EG (Zhengzhou) New Energy Technology Co. Ltd.: Supported by the Dalian Institute of Chemical Physics (Chinese Academy of Sciences), this company has pioneered the production of EG from straw sugar.

Progress: In 2023, the company completed the construction and operation of the world's first 1,000-ton pilot project in Puyang, Henan. In October 2023, the facility passed the 72-hour continuous operation assessment organized by the China Petroleum and Chemical Industry Federation, successfully producing polyester-grade Bio-MEG. The company is currently advancing the construction of a 10,000-ton industrial production line.

### **3. Key Market Players and Strategic Developments**

The competitive landscape is concentrated, consisting of one long-standing incumbent, a new entrant in Europe, and ambitious joint ventures planning massive future capacities in the Americas.

#### **Incumbent Leader**

India Glycols Limited (IGL): As the pioneer of the industry, IGL remains the dominant commercial supplier. Their integrated bio-refinery model in India allows them to supply Bio-MEG to major global beverage and textile brands. They have historically been the backbone of the supply chain for early initiatives like the 'PlantBottle.'

#### **Emerging European Powerhouse**

UPM Biochemicals: Positioned to disrupt the market in 2026, UPM is focusing on the European market where sustainability mandates are strictest. Their Leuna biorefinery represents a massive investment in moving beyond fossil raw materials, targeting applications in textiles, bottles, and coolants.

#### **Future Giants (The Americas)**

Sustainea: This joint venture between Brazilian petrochemical giant Braskem and Japanese trading house Sojitz represents the most ambitious scale-up plan in the sector.

**Major Announcement:** On October 18, 2024, Sustainea revealed plans to establish its first U.S. bio-MEG industrial facility in Lafayette, Indiana, with a projected investment of \$400 million.

**Strategic Location:** Indiana offers access to abundant corn dextrose feedstock.

**Timeline:** Construction is planned to commence after finalizing engineering and securing a Final Investment Decision (FID), with production slated to begin in 2028.

**Long-term Goal:** The company aims to build three plants globally with a total combined production capacity of 700,000 tons of Bio-MEG annually, which would fundamentally alter the global supply balance.

#### **4. Application Analysis and Segmentation**

Bio-MEG serves as a versatile intermediate, feeding into several high-volume value chains.

##### **Bio-Polyester (Bio-PET)**

This is the primary driver for Bio-MEG demand.

**Packaging:** Bio-MEG is combined with Purified Terephthalic Acid (PTA) to create PET resin. While the PTA portion (70% of the weight) is typically fossil-based, using Bio-MEG allows for a 'partially bio-based' PET bottle (approx. 30% bio-content). This has been championed by major beverage companies under initiatives like the PlantBottle.

**Textiles:** The fashion industry's demand for sustainable fibers is growing. Bio-MEG is used to produce bio-polyester fibers, which are chemically identical to standard polyester but come with a significantly lower carbon footprint. This appeals to outdoor and athletic apparel brands seeking to decarbonize their supply chains.

##### **Bio-Polyurethane (Bio-PU)**

Bio-MEG serves as a chain extender in the production of polyurethanes. These bio-based PUs are used in footwear soles, automotive seating, and synthetic leathers, offering a sustainable alternative to fossil-based PU.

## Functional Fluids and Others

**Coolants:** Bio-MEG is the main ingredient in engine coolants and antifreeze. With the rise of Electric Vehicles (EVs), the thermal management of battery packs requires significant volumes of coolant. Bio-based coolants offer a compelling marketing narrative for 'green' EVs.

**Industrial Applications:** It is also used in solvents, humectants, and chemical intermediates where non-fossil origin is a specification requirement.

## 5. Regional Market Analysis

### Asia-Pacific

**India:** Currently the global hub for commercial Bio-MEG production due to India Glycols Limited. The region benefits from strong agricultural sectors providing molasses.

**China:** Emerging as a technology developer. The focus in China is on non-food feedstocks (corn stover/straw) to avoid food security conflicts. The success of the Sinosci pilot in Henan indicates that China may soon enter the industrial production phase, leveraging its massive downstream textile industry demand.

### Europe

**Status:** Europe is the center of demand due to the European Green Deal and consumer awareness.

**Dynamics:** With UPM's facility in Germany coming online in 2026, Europe will transition from being a net importer of Bio-MEG to having substantial domestic capacity. However, the region also poses the strongest regulatory challenge due to the preference for recycled content (rPET) over bio-content in the Single-Use Plastics Directive.

### North America

**Status:** Currently a market focused on R&D and future capacity building.

**Outlook:** The United States is poised to become a major production hub by 2028 with

the Sustainea project. The Midwest's corn belt provides a strategic feedstock advantage similar to the US bio-ethanol fuel industry. The market demand in North America is driven by large CPG (Consumer Packaged Goods) companies seeking to reduce Scope 3 emissions.

## 6. Value Chain Analysis

The Bio-MEG value chain is distinct from the petrochemical chain, involving agricultural and forestry stakeholders.

Upstream (Feedstock):

First Gen: Sugarcane molasses (India/Brazil), Corn dextrose (USA).

Second Gen: Beechwood/Forestry residues (Europe), Agricultural waste/Straw (China).

Feedstock Security: The reliability and price stability of these raw materials are critical. Unlike oil, biomass is subject to seasonal yields, climate impact, and competition from the food and biofuel sectors.

Midstream (Conversion):

This stage involves the biochemical refineries (e.g., UPM in Leuna, IGL in Kashipur).

Technology providers like Technip Energies and Avantium play a crucial role here by licensing more efficient conversion processes to potential manufacturers.

Downstream (End-Users):

PET Resin Manufacturers (e.g., Indorama Ventures, Far Eastern New Century) who polymerize Bio-MEG with PTA.

Brand Owners (Beverage and Apparel) who dictate the demand through sustainability commitments.

## 7. Opportunities and Challenges

### Opportunities

**Scope 3 Emission Reductions:** As major corporations commit to Net Zero, they must decarbonize their raw materials. Bio-MEG offers a scientifically verified reduction in carbon footprint compared to fossil MEG, making it a valuable tool for carbon accounting.

**100% Bio-PET:** While currently Bio-MEG only enables ~30% bio-content (since PTA is fossil-based), the development of Bio-PTA and Bio-FDCA (PEF) opens the door for 100% bio-based polyester. Bio-MEG is the essential first step in this journey.

**The EV Coolant Market:** The rapid electrification of transport creates a new, large-volume market for glycols. Positioning Bio-MEG as the premium, sustainable choice for EV thermal management is a significant untapped opportunity.

### Challenges

**The 'Green Premium' Gap:** Bio-MEG remains significantly more expensive than fossil MEG. In a low-margin industry like packaging, this cost difference is a major barrier to mass adoption.

**Recycling vs. Bio-based Competition:** The circular economy narrative has somewhat overshadowed the bio-economy narrative. Brands are under pressure to use recycled plastic (rPET). Since there is a finite amount of capital available for sustainability premiums, rPET often wins over Bio-MEG in the short term.

**Scale and Availability:** With the market size under \$30 million in 2026, Bio-MEG is effectively a specialty chemical. Large multinational buyers often require volumes that the current supply chain simply cannot guarantee, creating a 'chicken and egg' problem where demand waits for supply capacity, but capacity waits for guaranteed demand.

## 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 Bio-based Monoethylene Glycol 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 Bio-based Monoethylene Glycol by Region
- 8.2 Import of Bio-based Monoethylene Glycol by Region
- 8.3 Balance of Trade

## **CHAPTER 9 HISTORICAL AND FORECAST BIO-BASED MONOETHYLENE GLYCOL MARKET IN NORTH AMERICA (2021-2031)**

- 9.1 Bio-based Monoethylene Glycol Market Size
- 9.2 Bio-based Monoethylene Glycol 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 BIO-BASED MONOETHYLENE GLYCOL MARKET IN SOUTH AMERICA (2021-2031)**

- 10.1 Bio-based Monoethylene Glycol Market Size
- 10.2 Bio-based Monoethylene Glycol 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 BIO-BASED MONOETHYLENE GLYCOL MARKET IN ASIA & PACIFIC (2021-2031)**

- 11.1 Bio-based Monoethylene Glycol Market Size
- 11.2 Bio-based Monoethylene Glycol 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 & New Zealand

## **CHAPTER 12 HISTORICAL AND FORECAST BIO-BASED MONOETHYLENE GLYCOL MARKET IN EUROPE (2021-2031)**

- 12.1 Bio-based Monoethylene Glycol Market Size
- 12.2 Bio-based Monoethylene Glycol 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 North Europe

## **CHAPTER 13 HISTORICAL AND FORECAST BIO-BASED MONOETHYLENE GLYCOL MARKET IN MEA (2021-2031)**

- 13.1 Bio-based Monoethylene Glycol Market Size
- 13.2 Bio-based Monoethylene Glycol 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 BIO-BASED MONOETHYLENE GLYCOL MARKET (2021-2026)**

- 14.1 Bio-based Monoethylene Glycol Market Size
- 14.2 Bio-based Monoethylene Glycol Demand by End Use
- 14.3 Competition by Players/Suppliers
- 14.4 Type Segmentation and Price

## **CHAPTER 15 GLOBAL BIO-BASED MONOETHYLENE GLYCOL MARKET FORECAST (2026-2031)**

- 15.1 Bio-based Monoethylene Glycol Market Size Forecast
- 15.2 Bio-based Monoethylene Glycol Demand Forecast
- 15.3 Competition by Players/Suppliers
- 15.4 Type Segmentation and Price Forecast

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

- 16.1 India Glycols Limited
  - 16.1.1 Company Profile
  - 16.1.2 Main Business and Bio-based Monoethylene Glycol Information
  - 16.1.3 SWOT Analysis of India Glycols Limited
  - 16.1.4 India Glycols Limited Bio-based Monoethylene Glycol Sales, Revenue, Price and Gross Margin (2021-2026)
- 16.2 UPM Biochemicals
  - 16.2.1 Company Profile
  - 16.2.2 Main Business and Bio-based Monoethylene Glycol Information
  - 16.2.3 SWOT Analysis of UPM Biochemicals
  - 16.2.4 UPM Biochemicals Bio-based Monoethylene Glycol Sales, Revenue, Price and Gross Margin (2021-2026)

Please ask for sample pages for full companies list

## Tables & Figures

### TABLES AND FIGURES

Table Abbreviation and Acronyms List

Table Research Scope of Bio-based Monoethylene Glycol Report

Table Data Sources of Bio-based Monoethylene Glycol Report

Table Major Assumptions of Bio-based Monoethylene Glycol Report

Figure Market Size Estimated Method

Figure Major Forecasting Factors

Figure Bio-based Monoethylene Glycol Picture

Table Bio-based Monoethylene Glycol Classification

Table Bio-based Monoethylene Glycol Applications List

Table Drivers of Bio-based Monoethylene Glycol Market

Table Restraints of Bio-based Monoethylene Glycol Market

Table Opportunities of Bio-based Monoethylene Glycol Market

Table Threats of Bio-based Monoethylene Glycol Market

Table Raw Materials Suppliers List

Table Different Production Methods of Bio-based Monoethylene Glycol

Table Cost Structure Analysis of Bio-based Monoethylene Glycol

Table Key End Users List

Table Latest News of Bio-based Monoethylene Glycol Market

Table Merger and Acquisition List

Table Planned/Future Project of Bio-based Monoethylene Glycol Market

Table Policy of Bio-based Monoethylene Glycol Market

Table 2021-2031 Regional Export of Bio-based Monoethylene Glycol

Table 2021-2031 Regional Import of Bio-based Monoethylene Glycol

Table 2021-2031 Regional Trade Balance

Figure 2021-2031 Regional Trade Balance

Table 2021-2031 North America Bio-based Monoethylene Glycol Market Size and Market Volume List

Figure 2021-2031 North America Bio-based Monoethylene Glycol Market Size and CAGR

Figure 2021-2031 North America Bio-based Monoethylene Glycol Market Volume and CAGR

Table 2021-2031 North America Bio-based Monoethylene Glycol Demand List by Application

Table 2021-2026 North America Bio-based Monoethylene Glycol Key Players Sales List

Table 2021-2026 North America Bio-based Monoethylene Glycol Key Players Market Share List

Table 2021-2031 North America Bio-based Monoethylene Glycol Demand List by Type  
Table 2021-2026 North America Bio-based Monoethylene Glycol Price List by Type  
Table 2021-2031 United States Bio-based Monoethylene Glycol Market Size and Market Volume List  
Table 2021-2031 United States Bio-based Monoethylene Glycol Import & Export List  
Table 2021-2031 Canada Bio-based Monoethylene Glycol Market Size and Market Volume List  
Table 2021-2031 Canada Bio-based Monoethylene Glycol Import & Export List  
Table 2021-2031 Mexico Bio-based Monoethylene Glycol Market Size and Market Volume List  
Table 2021-2031 Mexico Bio-based Monoethylene Glycol Import & Export List  
Table 2021-2031 South America Bio-based Monoethylene Glycol Market Size and Market Volume List  
Figure 2021-2031 South America Bio-based Monoethylene Glycol Market Size and CAGR  
Figure 2021-2031 South America Bio-based Monoethylene Glycol Market Volume and CAGR  
Table 2021-2031 South America Bio-based Monoethylene Glycol Demand List by Application  
Table 2021-2026 South America Bio-based Monoethylene Glycol Key Players Sales List  
Table 2021-2026 South America Bio-based Monoethylene Glycol Key Players Market Share List  
Table 2021-2031 South America Bio-based Monoethylene Glycol Demand List by Type  
Table 2021-2026 South America Bio-based Monoethylene Glycol Price List by Type  
Table 2021-2031 Brazil Bio-based Monoethylene Glycol Market Size and Market Volume List  
Table 2021-2031 Brazil Bio-based Monoethylene Glycol Import & Export List  
Table 2021-2031 Argentina Bio-based Monoethylene Glycol Market Size and Market Volume List  
Table 2021-2031 Argentina Bio-based Monoethylene Glycol Import & Export List  
Table 2021-2031 Chile Bio-based Monoethylene Glycol Market Size and Market Volume List  
Table 2021-2031 Chile Bio-based Monoethylene Glycol Import & Export List  
Table 2021-2031 Peru Bio-based Monoethylene Glycol Market Size and Market Volume List  
Table 2021-2031 Peru Bio-based Monoethylene Glycol Import & Export List  
Table 2021-2031 Asia & Pacific Bio-based Monoethylene Glycol Market Size and Market Volume List

Figure 2021-2031 Asia & Pacific Bio-based Monoethylene Glycol Market Size and CAGR

Figure 2021-2031 Asia & Pacific Bio-based Monoethylene Glycol Market Volume and CAGR

Table 2021-2031 Asia & Pacific Bio-based Monoethylene Glycol Demand List by Application

Table 2021-2026 Asia & Pacific Bio-based Monoethylene Glycol Key Players Sales List

Table 2021-2026 Asia & Pacific Bio-based Monoethylene Glycol Key Players Market Share List

Table 2021-2031 Asia & Pacific Bio-based Monoethylene Glycol Demand List by Type

Table 2021-2026 Asia & Pacific Bio-based Monoethylene Glycol Price List by Type

Table 2021-2031 China Bio-based Monoethylene Glycol Market Size and Market Volume List

Table 2021-2031 China Bio-based Monoethylene Glycol Import & Export List

Table 2021-2031 India Bio-based Monoethylene Glycol Market Size and Market Volume List

Table 2021-2031 India Bio-based Monoethylene Glycol Import & Export List

Table 2021-2031 Japan Bio-based Monoethylene Glycol Market Size and Market Volume List

Table 2021-2031 Japan Bio-based Monoethylene Glycol Import & Export List

Table 2021-2031 South Korea Bio-based Monoethylene Glycol Market Size and Market Volume List

Table 2021-2031 South Korea Bio-based Monoethylene Glycol Import & Export List

Table 2021-2031 Southeast Asia Bio-based Monoethylene Glycol Market Size List

Table 2021-2031 Southeast Asia Bio-based Monoethylene Glycol Market Volume List

Table 2021-2031 Southeast Asia Bio-based Monoethylene Glycol Import List

Table 2021-2031 Southeast Asia Bio-based Monoethylene Glycol Export List

Table 2021-2031 Australia & New Zealand Bio-based Monoethylene Glycol Market Size and Market Volume List

Table 2021-2031 Australia & New Zealand Bio-based Monoethylene Glycol Import & Export List

Table 2021-2031 Europe Bio-based Monoethylene Glycol Market Size and Market Volume List

Figure 2021-2031 Europe Bio-based Monoethylene Glycol Market Size and CAGR

Figure 2021-2031 Europe Bio-based Monoethylene Glycol Market Volume and CAGR

Table 2021-2031 Europe Bio-based Monoethylene Glycol Demand List by Application

Table 2021-2026 Europe Bio-based Monoethylene Glycol Key Players Sales List

Table 2021-2026 Europe Bio-based Monoethylene Glycol Key Players Market Share List

- Table 2021-2031 Europe Bio-based Monoethylene Glycol Demand List by Type
- Table 2021-2026 Europe Bio-based Monoethylene Glycol Price List by Type
- Table 2021-2031 Germany Bio-based Monoethylene Glycol Market Size and Market Volume List
- Table 2021-2031 Germany Bio-based Monoethylene Glycol Import & Export List
- Table 2021-2031 France Bio-based Monoethylene Glycol Market Size and Market Volume List
- Table 2021-2031 France Bio-based Monoethylene Glycol Import & Export List
- Table 2021-2031 United Kingdom Bio-based Monoethylene Glycol Market Size and Market Volume List
- Table 2021-2031 United Kingdom Bio-based Monoethylene Glycol Import & Export List
- Table 2021-2031 Italy Bio-based Monoethylene Glycol Market Size and Market Volume List
- Table 2021-2031 Italy Bio-based Monoethylene Glycol Import & Export List
- Table 2021-2031 Spain Bio-based Monoethylene Glycol Market Size and Market Volume List
- Table 2021-2031 Spain Bio-based Monoethylene Glycol Import & Export List
- Table 2021-2031 Belgium Bio-based Monoethylene Glycol Market Size and Market Volume List
- Table 2021-2031 Belgium Bio-based Monoethylene Glycol Import & Export List
- Table 2021-2031 Netherlands Bio-based Monoethylene Glycol Market Size and Market Volume List
- Table 2021-2031 Netherlands Bio-based Monoethylene Glycol Import & Export List
- Table 2021-2031 Austria Bio-based Monoethylene Glycol Market Size and Market Volume List
- Table 2021-2031 Austria Bio-based Monoethylene Glycol Import & Export List
- Table 2021-2031 Poland Bio-based Monoethylene Glycol Market Size and Market Volume List
- Table 2021-2031 Poland Bio-based Monoethylene Glycol Import & Export List
- Table 2021-2031 North Europe Bio-based Monoethylene Glycol Market Size and Market Volume List
- Table 2021-2031 North Europe Bio-based Monoethylene Glycol Import & Export List
- Table 2021-2031 MEA Bio-based Monoethylene Glycol Market Size and Market Volume List
- Figure 2021-2031 MEA Bio-based Monoethylene Glycol Market Size and CAGR
- Figure 2021-2031 MEA Bio-based Monoethylene Glycol Market Volume and CAGR
- Table 2021-2031 MEA Bio-based Monoethylene Glycol Demand List by Application
- Table 2021-2026 MEA Bio-based Monoethylene Glycol Key Players Sales List
- Table 2021-2026 MEA Bio-based Monoethylene Glycol Key Players Market Share List

Table 2021-2031 MEA Bio-based Monoethylene Glycol Demand List by Type  
Table 2021-2026 MEA Bio-based Monoethylene Glycol Price List by Type  
Table 2021-2031 Egypt Bio-based Monoethylene Glycol Market Size and Market Volume List  
Table 2021-2031 Egypt Bio-based Monoethylene Glycol Import & Export List  
Table 2021-2031 Israel Bio-based Monoethylene Glycol Market Size and Market Volume List  
Table 2021-2031 Israel Bio-based Monoethylene Glycol Import & Export List  
Table 2021-2031 South Africa Bio-based Monoethylene Glycol Market Size and Market Volume List  
Table 2021-2031 South Africa Bio-based Monoethylene Glycol Import & Export List  
Table 2021-2031 Gulf Cooperation Council Countries Bio-based Monoethylene Glycol Market Size and Market Volume List  
Table 2021-2031 Gulf Cooperation Council Countries Bio-based Monoethylene Glycol Import & Export List  
Table 2021-2031 Turkey Bio-based Monoethylene Glycol Market Size and Market Volume List  
Table 2021-2031 Turkey Bio-based Monoethylene Glycol Import & Export List  
Table 2021-2026 Global Bio-based Monoethylene Glycol Market Size List by Region  
Table 2021-2026 Global Bio-based Monoethylene Glycol Market Size Share List by Region  
Table 2021-2026 Global Bio-based Monoethylene Glycol Market Volume List by Region  
Table 2021-2026 Global Bio-based Monoethylene Glycol Market Volume Share List by Region  
Table 2021-2026 Global Bio-based Monoethylene Glycol Demand List by Application  
Table 2021-2026 Global Bio-based Monoethylene Glycol Demand Market Share List by Application  
Table 2021-2026 Global Bio-based Monoethylene Glycol Capacity List  
Table 2021-2026 Global Bio-based Monoethylene Glycol Key Vendors Capacity Share List  
Table 2021-2026 Global Bio-based Monoethylene Glycol Key Vendors Production List  
Table 2021-2026 Global Bio-based Monoethylene Glycol Key Vendors Production Share List  
Figure 2021-2026 Global Bio-based Monoethylene Glycol Capacity Production and Growth Rate  
Table 2021-2026 Global Bio-based Monoethylene Glycol Key Vendors Production Value List  
Figure 2021-2026 Global Bio-based Monoethylene Glycol Production Value and Growth Rate

Table 2021-2026 Global Bio-based Monoethylene Glycol Key Vendors Production Value Share List

Table 2021-2026 Global Bio-based Monoethylene Glycol Demand List by Type

Table 2021-2026 Global Bio-based Monoethylene Glycol Demand Market Share List by Type

Table 2021-2026 Regional Bio-based Monoethylene Glycol Price List

Table 2026-2031 Global Bio-based Monoethylene Glycol Market Size List by Region

Table 2026-2031 Global Bio-based Monoethylene Glycol Market Size Share List by Region

Table 2026-2031 Global Bio-based Monoethylene Glycol Market Volume List by Region

Table 2026-2031 Global Bio-based Monoethylene Glycol Market Volume Share List by Region

Table 2026-2031 Global Bio-based Monoethylene Glycol Demand List by Application

Table 2026-2031 Global Bio-based Monoethylene Glycol Demand Market Share List by Application

Table 2026-2031 Global Bio-based Monoethylene Glycol Capacity List

Table 2026-2031 Global Bio-based Monoethylene Glycol Key Vendors Capacity Share List

Table 2026-2031 Global Bio-based Monoethylene Glycol Key Vendors Production List

Table 2026-2031 Global Bio-based Monoethylene Glycol Key Vendors Production Share List

Figure 2026-2031 Global Bio-based Monoethylene Glycol Capacity Production and Growth Rate

Table 2026-2031 Global Bio-based Monoethylene Glycol Key Vendors Production Value List

Figure 2026-2031 Global Bio-based Monoethylene Glycol Production Value and Growth Rate

Table 2026-2031 Global Bio-based Monoethylene Glycol Key Vendors Production Value Share List

Table 2026-2031 Global Bio-based Monoethylene Glycol Demand List by Type

Table 2026-2031 Global Bio-based Monoethylene Glycol Demand Market Share List by Type

Table 2026-2031 Bio-based Monoethylene Glycol Regional Price List

Table India Glycols Limited Information

Table SWOT Analysis of India Glycols Limited

Table 2021-2026 India Glycols Limited Bio-based Monoethylene Glycol Product Capacity Production Price Cost Production Value

Figure 2021-2026 India Glycols Limited Bio-based Monoethylene Glycol Capacity Production and Growth Rate

Figure 2021-2026 India Glycols Limited Bio-based Monoethylene Glycol Market Share  
Table UPM Biochemicals Information  
Table SWOT Analysis of UPM Biochemicals  
Table 2021-2026 UPM Biochemicals Bio-based Monoethylene Glycol Product Capacity  
Production Price Cost Production Value  
Figure 2021-2026 UPM Biochemicals Bio-based Monoethylene Glycol Capacity  
Production and Growth Rate  
Figure 2021-2026 UPM Biochemicals Bio-based Monoethylene Glycol Market Share  
.....

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