

# Global Monohydrate Crystalline Glucose Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Monohydrate Crystalline Glucose market size is expected to reach \$ 7682 million by 2032, rising at a market growth of 2.1% CAGR during the forecast period (2026-2032).

In 2025, global sales of monohydrate crystalline glucose reached 12.4 million tons, with an average price of US\$515 per ton.

Monohydrate crystalline glucose is a white crystalline powder or granules containing one molecule of water of crystallization ( $C_6H_{12}O_6 \cdot H_2O$ , molecular weight 198.17), produced from starch (mainly corn starch) through liquefaction, saccharification, refining, concentration, and cooling crystallization. It has a moisture content of 7.0–9.5%, a melting point of 146°C, a cool, sweet taste, high water solubility, and hygroscopicity. Its main characteristics distinguish it from anhydrous glucose (which contains no water of crystallization) are its physical stability and storage performance.

Monohydrate crystalline glucose is produced using corn starch as the main raw material (approximately 70-80%). The process involves saccharification using a dual-enzyme method ( $\alpha$ -amylase and saccharifying enzyme), decolorization with activated carbon, purification via ion exchange, multi-effect evaporation concentration, and cooling crystallization. Auxiliary materials include enzyme preparations, activated carbon, ion exchange resin, and crystallizing agents. The production process is energy-intensive, requiring significant amounts of steam for evaporation concentration (increasing the solid content from 30% to 70-80%) and a cooling water system for the crystallization process. The cost structure exhibits a significant raw material-driven characteristic: corn starch costs account for 70-80% of the total production cost, energy (water, electricity, steam, and wastewater treatment) accounts for 8-10%, and depreciation, labor, and

packaging costs combined account for only 10-15%. This results in a high positive correlation between the product price and the corn market price (correlation coefficient reaching 0.81), meaning fluctuations in raw material prices directly determine the company's profitability.

This report studies the global Monohydrate Crystalline Glucose production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Monohydrate Crystalline Glucose and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Monohydrate Crystalline Glucose that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Monohydrate Crystalline Glucose total production and demand, 2021-2032, (Kilotons)

Global Monohydrate Crystalline Glucose total production value, 2021-2032, (USD Million)

Global Monohydrate Crystalline Glucose production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Monohydrate Crystalline Glucose consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Monohydrate Crystalline Glucose domestic production, consumption, key domestic manufacturers and share

Global Monohydrate Crystalline Glucose production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Monohydrate Crystalline Glucose production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Monohydrate Crystalline Glucose production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Monohydrate Crystalline Glucose 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 Cargill, ADM, Ingredion, Tereos, Roquette, Lihua Starch, Xiwang Group, Tate & Lyle, Zhucheng Dongxiao Biotechnology, Zhucheng Xingmao Corn Developing, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Monohydrate Crystalline Glucose market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

### **Global Monohydrate Crystalline Glucose Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### **Global Monohydrate Crystalline Glucose Market, Segmentation by Type:**

Food Grade

Pharmaceutical Grade

Industrial Grade

Other

#### Global Monohydrate Crystalline Glucose Market, Segmentation by Particle Size:

Crystalline Granules

Powder

Ultrafine Powder

#### Global Monohydrate Crystalline Glucose Market, Segmentation by Production Process:

Dual Enzyme Method

Acid-Enzyme Combined Method

#### Global Monohydrate Crystalline Glucose Market, Segmentation by Application:

Food Industry

Pharmaceutical & Health Products

Chemical

Other

#### Companies Profiled:

Cargill

ADM

Ingredion

Tereos

Roquette

Lihua Starch

Xiwang Group

Tate & Lyle

Zhucheng Dongxiao Biotechnology

Zhucheng Xingmao Corn Developing

Avebe

Feitian

Qingyuan Food

Global Sweeteners Holdings

Luzhou Bio-Chem Technology

**Key Questions Answered:**

1. How big is the global Monohydrate Crystalline Glucose market?
2. What is the demand of the global Monohydrate Crystalline Glucose market?
3. What is the year over year growth of the global Monohydrate Crystalline Glucose market?
4. What is the production and production value of the global Monohydrate Crystalline Glucose market?
5. Who are the key producers in the global Monohydrate Crystalline Glucose market?
6. What are the growth factors driving the market demand?

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