

Global 5-hydroxymethylfurfural (5-HMF) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 5-hydroxymethylfurfural (5-HMF) market size is expected to reach \$ 723 million by 2032, rising at a market growth of 31.4% CAGR during the forecast period (2026-2032).

Hydroxymethylfurfural (HMF), also 5-(hydroxymethyl) furfural, is an organic compound formed by the dehydration of certain sugars. It is a white low-melting solid (although commercial samples are often yellow) which is highly soluble in both water and organic solvents. The molecule consists of a furan ring, containing both aldehyde and alcohol functional groups. HMF can form in sugar-containing food, particularly as a result of heating or cooking and this formation has been the topic of significant study as HMF is regarded as being potentially carcinogenic to humans. Hydroxymethylfurfural is a marker of poor or overlong storage of foods such as honey. It is produced industrially on a modest scale as a carbon-neutral feedstock for the production of fuels and other chemicals.

Global sales of 5-hydroxymethylfurfural (5-HMF) reached 1,130.64 tonnes in 2025, with an average price of US\$89 per kilogram.

Market Demand Growth: As global demand for sustainable and eco-friendly products continues to rise, coupled with advancements in biomass conversion technology, the market demand for 5-HMF, a bio-based platform compound, is expected to expand further. It can serve as a raw material for producing bio-based plastics such as polyethylene furandicarboxylate (PEF), which can replace traditional petrochemical plastics, aligning with environmental trends and driving market growth.

Technology Innovation-Driven: Currently, 5-HMF production faces high costs due to complex chemical reactions and expensive catalysts. In the future, innovations in

catalytic processes and the development of new biomass conversion technologies will focus on improving production efficiency and reducing costs, thereby enhancing the commercial viability of 5-HMF production and promoting market development.

Expansion of application areas: In addition to existing applications in the fragrance and pharmaceutical industries, further research may uncover new application areas for 5-HMF. For example, in the food industry, its use as a natural food additive and preservative is expected to expand further. Growing consumer demand for natural and organic food ingredients will drive the rapid development of the food-grade 5-HMF market.

This report studies the global 5-hydroxymethylfurfural (5-HMF) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 5-hydroxymethylfurfural (5-HMF) 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 5-hydroxymethylfurfural (5-HMF) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 5-hydroxymethylfurfural (5-HMF) total production and demand, 2021-2032, (Tons)

Global 5-hydroxymethylfurfural (5-HMF) total production value, 2021-2032, (USD Million)

Global 5-hydroxymethylfurfural (5-HMF) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global 5-hydroxymethylfurfural (5-HMF) consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: 5-hydroxymethylfurfural (5-HMF) domestic production, consumption, key domestic manufacturers and share

Global 5-hydroxymethylfurfural (5-HMF) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global 5-hydroxymethylfurfural (5-HMF) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global 5-hydroxymethylfurfural (5-HMF) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global 5-hydroxymethylfurfural (5-HMF) 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 Suger Energy, GS Biotech, AVA Biochem, NBB Company, Robinson Brothers, Penta Manufacturer, Beijing Lys Chemicals, Xuzhou Ruisai Technology, 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 5-hydroxymethylfurfural (5-HMF) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Kg) 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 5-hydroxymethylfurfural (5-HMF) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 5-hydroxymethylfurfural (5-HMF) Market, Segmentation by Type:

Industrial Grade

Food Grade

Global 5-hydroxymethylfurfural (5-HMF) Market, Segmentation by Purity Grade:

90-98%

99%+

Global 5-hydroxymethylfurfural (5-HMF) Market, Segmentation by Sales Channels:

Direct Sales

Distribution

Global 5-hydroxymethylfurfural (5-HMF) Market, Segmentation by Application:

Flavor & Fragrance Industry

Pharmaceutical Industry

Others

Companies Profiled:

Suger Energy

GS Biotech

AVA Biochem

NBB Company

Robinson Brothers

Penta Manufacturer

Beijing Lys Chemicals

Xuzhou Ruisai Technology

Key Questions Answered:

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

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