

Global 5-hydroxymethylfurfural (5-HMF) Market Growth 2026-2032

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Abstracts

The global 5-hydroxymethylfurfural (5-HMF) market size is predicted to grow from US\$ 99 million in 2025 to US\$ 751 million in 2032; it is expected to grow at a CAGR of 33.3% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "5-hydroxymethylfurfural (5-HMF) Industry Forecast" looks at past sales and reviews total world 5-hydroxymethylfurfural (5-HMF) sales in 2025, providing a comprehensive analysis by region and market sector of projected 5-hydroxymethylfurfural (5-HMF) sales for 2026 through 2032. With 5-hydroxymethylfurfural (5-HMF) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 5-hydroxymethylfurfural (5-HMF) industry.

This Insight Report provides a comprehensive analysis of the global 5-hydroxymethylfurfural (5-HMF) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 5-hydroxymethylfurfural (5-HMF) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 5-hydroxymethylfurfural (5-HMF) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 5-hydroxymethylfurfural (5-HMF) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 5-hydroxymethylfurfural (5-HMF).

This report presents a comprehensive overview, market shares, and growth opportunities of 5-hydroxymethylfurfural (5-HMF) market by product type, application,

key manufacturers and key regions and countries.

Segmentation by Type:

Industrial Grade

Food Grade

Segmentation by Purity Grade:

90-98%

99%+

Segmentation by Sales Channels:

Direct Sales

Distribution

Segmentation by Application:

Flavor & Fragrance Industry

Pharmaceutical Industry

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Suger Energy

GS Biotech

AVA Biochem

NBB Company

Robinson Brothers

Penta Manufacturer

Beijing Lys Chemicals

Xuzhou Ruisai Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global 5-hydroxymethylfurfural (5-HMF) market?

What factors are driving 5-hydroxymethylfurfural (5-HMF) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 5-hydroxymethylfurfural (5-HMF) market opportunities vary by end market size?

How does 5-hydroxymethylfurfural (5-HMF) break out by Type, by Application?

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