

Global Isoprene Monomer Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GE436FEEF081EN.html>

Date: July 2026

Pages: 134

Price: US\$ 4,480.00 (Single User License)

ID: GE436FEEF081EN

Abstracts

The global Isoprene Monomer market size is expected to reach \$ 3256 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

In 2025, global sales volume for isoprene monomer is projected to reach 840,000 tons, with an average price of \$2,835 per ton.

Isoprene Monomer or 2-methyl-1, 3-butadiene, is a common organic compound with the formula $\text{CH}_2=\text{C}(\text{CH}_3)\text{CH}=\text{CH}_2$. In its pure form, it is a colorless volatile liquid.

Global isoprene monomer key players include Nizhnekamskneftekhim, Tatneft, Synthez-Kauchuk, Shell, JSR, etc. Global top 5 players hold a share about 45%. Europe is the largest market, with a share about 45%, followed by Asia-Pacific and North America, having share about 30% and 20%.

The raw material sources and cost structures for isoprene production vary significantly depending on the specific manufacturing process employed. The core feedstock for the dominant C5 fraction extraction method is the cracked C5 fraction—a byproduct of ethylene cracking units. Within this fraction, isoprene typically accounts for approximately 15% to 20% of the content, while other reactive components—such as piperylene and cyclopentadiene—collectively constitute 40% to 55% of the total C5 volume. In the cost structure of this process, raw materials represent the largest expenditure; the price of the C5 fraction is directly influenced by naphtha prices and the operating rates of ethylene cracking units. Energy consumption ranks as the second-largest cost factor, as the extractive distillation process requires substantial quantities of steam and electricity for solvent recovery and separation operations; furthermore, the loss and recovery efficiency of solvents—such as DMF or acetonitrile—have a significant impact on overall costs. Additionally, the substantial capital investment required for the

facility and the complexity of the separation workflow (which necessitates multiple stages of extractive distillation and refining steps, such as hydrogenation to remove alkynes) result in high depreciation and labor costs. Moreover, impurities like cyclopentadiene are prone to polymerization, which can cause equipment clogging and consequently drive up maintenance costs. In contrast, the isobutylene-formaldehyde method (also known as the 'isobutylene-aldehyde route') utilizes isobutylene and formaldehyde as raw materials. While the unit price of isobutylene is relatively high, averaging approximately 7,100 RMB per ton, formaldehyde is an inexpensive feedstock. This process boasts a reaction conversion rate exceeding 70%, and its byproducts can be co-produced with high-value-added products such as MTBE. Despite the higher unit cost of its primary feedstock, the method benefits from excellent atomic economy and yields a product of high purity (characterized by extremely low impurity levels); consequently, the overall production cost is approximately 30% lower than that of the C5 extraction method. Furthermore, this process does not rely on the infrastructure of ethylene cracking units, offering greater flexibility in raw material procurement. Currently, biological methods utilize sugars—such as glucose—as a carbon source; consequently, raw material costs are subject to fluctuations in agricultural product prices. However, the fermentation process eliminates the need for complex separation and purification steps, thereby offering the potential for reduced costs in the long run.

This report studies the global Isoprene Monomer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Isoprene Monomer 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 Isoprene Monomer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Isoprene Monomer total production and demand, 2021-2032, (K MT)

Global Isoprene Monomer total production value, 2021-2032, (USD Million)

Global Isoprene Monomer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Isoprene Monomer consumption by region & country, CAGR, 2021-2032 & (K MT)

U.S. VS China: Isoprene Monomer domestic production, consumption, key domestic

manufacturers and share

Global Isoprene Monomer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Isoprene Monomer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Isoprene Monomer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Isoprene Monomer 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 Nizhnekamskneftekhim (RU), Tatneft (RU), Synthes-Kauchuk (RU), Shell (NL), JSR (JP), Goodyear Chemical (US), Kuraray (JP), ZEON CORPORATION (JP), Lotte Chemical (KR), SINOPEC (CN), 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 Isoprene Monomer market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (USD/MT) 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 Isoprene Monomer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Isoprene Monomer Market, Segmentation by Type:

Polymerization Grade

Chemical Grade

Global Isoprene Monomer Market, Segmentation by Production Processes:

C5 Fraction Extraction Method

Isopentane Dehydrogenation Method

Isobutylene-Formaldehyde Method

Others

Global Isoprene Monomer Market, Segmentation by Sources:

Petroleum-based

Bio-based

Global Isoprene Monomer Market, Segmentation by Application:

Isoprene Rubber

Styrene Isoprene Styrene

Isobutylene Isoprene Rubber

Fine Chemicals

Companies Profiled:

Nizhnekamskneftekhim (RU)

Tatneft (RU)

Synthez-Kauchuk (RU)

Shell (NL)

JSR (JP)

Goodyear Chemical (US)

Kuraray (JP)

ZEON CORPORATION (JP)

Lotte Chemical (KR)

SINOPEC (CN)

Jinhai Chenguang (CN)

Zibo Luhua Hongjin New Material (CN)

Shandong Yuhuang Chemical (CN)

Yikesi (CN)

Henghe Materials & Science Technology (CN)

Key Questions Answered:

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

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