

# **Methanol Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Feedstock (Natural Gas, Coal, Biomass, Others), By End User (Construction, Automotive, Electrical & Electronics, Pharmaceutical, Packaging, Paints & Coatings, Others), By Region and Competition, 2019-2029F**

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## **Abstracts**

Global Methanol Market was valued at USD 33.25 Billion in 2023 and is expected to reach USD 41.26 Billion by 2029 with a CAGR of 3.86% during the forecast period. The global methanol market has experienced significant growth in recent years due to rising demand for methanol as a feedstock in various industries, including chemicals, energy, and automotive sectors. Methanol serves as a vital raw material in the production of numerous chemicals, with the demand for formaldehyde, which is primarily utilized in manufacturing plastics, resins, and adhesives, showing a marked increase. This trend supports the expansion of the methanol market. Furthermore, the growth of the chemical industry in emerging economies, especially in the Asia-Pacific region, is expected to elevate demand further.

As the global focus shifts toward reducing carbon emissions, methanol gains recognition as a cleaner alternative fuel. It can be produced from renewable sources such as biomass, making it a compelling choice in the transition to sustainable energy solutions. Additionally, advancements in methanol fuel cells for transportation applications, particularly in heavy-duty vehicles, are projected to boost market demand.

Innovations in methanol production processes, particularly advancements in catalytic technologies and feedstock utilization, improve efficiency and lower costs. This trend is anticipated to attract further investments in methanol production facilities, especially in

regions with rich natural gas reserves.

Despite this optimistic outlook, the methanol market faces several challenges. Fluctuations in feedstock prices, particularly natural gas, can impact production costs and market dynamics. Additionally, competition from alternative fuels and other chemical feedstocks presents a risk to methanol's market share.

## Key Market Drivers

### Growing Demand of Methanol in Automotive Industry

Methanol, a simple alcohol with the chemical formula  $\text{CH}_3\text{OH}$ , has a wide range of applications in the automotive sector. It can be utilized as a fuel, a fuel additive, or a feedstock for producing other fuels and chemicals. The increasing focus on reducing greenhouse gas emissions and enhancing energy security is driving automotive manufacturers to explore alternative fuels, and methanol is increasingly viewed as a viable option.

Methanol can be used directly in internal combustion engines or in methanol fuel cells, offering a cleaner combustion process compared to traditional gasoline or diesel. Its lower carbon content results in reduced  $\text{CO}_2$  emissions, making it an attractive choice for environmentally conscious consumers and regulatory bodies. Many automotive manufacturers are blending methanol with conventional fuels to improve performance and reduce emissions. Blending methanol with gasoline can enhance octane ratings and reduce harmful exhaust emissions. This strategy allows for a transitional approach to cleaner fuels while utilizing existing infrastructure.

The development of methanol fuel cells for electric vehicles (EVs) represents a significant innovation in the automotive sector. Methanol fuel cells convert methanol into electricity, providing a clean energy source with a higher energy density than batteries. This technology offers advantages such as faster refueling times and longer driving ranges, making it an appealing option for manufacturers and consumers alike.

In September 2022, China's Ministry of Industry and Information Technology announced plans to 'accelerate the adoption of methanol vehicles' and 'explore the 'green methanol + methanol vehicles' model.' Known as 'wood alcohol,' methanol is a straightforward organic chemical that can be sourced from various materials, including coal, natural gas, biomass, and captured carbon dioxide. The benefits of using methanol as a fuel are evident: it matches the performance of traditional fuels while being more

environmentally friendly. For example, methanol has been extensively utilized in race cars due to its ability to increase engine horsepower while maintaining cooler operating temperatures. In specific applications, such as long-haul transportation, methanol-powered vehicles can offer a more cost-effective and reliable alternative to electric vehicles (EVs).

Ongoing research and development efforts in methanol production and fuel cell technology are enhancing the efficiency and feasibility of methanol as an automotive fuel. Innovations in catalytic processes, fuel cell design, and infrastructure development are making it increasingly viable for widespread adoption.

As consumers become more environmentally conscious, there is a growing demand for vehicles that utilize cleaner fuels. Automakers are responding to this trend by developing methanol-compatible vehicles to meet consumer expectations and enhance their market competitiveness.

### Growing Demand of Methanol in Pharmaceutical Industry

The global pharmaceutical sector is experiencing robust growth, driven by escalating healthcare demands, advancements in medical technology, and an increasing emphasis on personalized medicine. This expansion has led to a surge in the demand for raw materials, including methanol, which is essential for synthesizing a diverse range of pharmaceutical compounds.

In October 2023, the U.S. Food and Drug Administration (FDA) released final guidance aimed at assisting manufacturers and compounders in testing alcohol products, specifically ethanol and isopropyl alcohol, for methanol contamination. This updated guidance broadens the scope of testing to encompass all products utilizing pharmaceutical alcohols (PAs), rather than being limited to hand sanitizers alone. According to the final guidance, manufacturers and compounders are required to comply with the methanol limits established in the United States Pharmacopeia (USP) monographs for ethyl alcohol (ethanol) and isopropyl alcohol. The permissible limit is set at 200 parts per million (ppm); any products exceeding this threshold will be deemed adulterated. The guidance also emphasizes that drug manufacturers bear the responsibility of understanding the entities involved in producing all ingredients within their supply chain, including pharmaceutical alcohol. Furthermore, it highlights the necessity for all personnel within pharmaceutical manufacturing facilities to recognize the critical importance of testing and the associated risks of failing to conduct such testing.

Methanol plays a critical role in the production of various active pharmaceutical ingredients (APIs), which are fundamental to medication formulation. Its function as a solvent in chemical reactions enables the synthesis of complex molecules, thus facilitating the development of innovative therapies. Additionally, methanol is utilized in drug formulation processes to enhance the solubility and bioavailability of pharmaceutical compounds, a crucial factor in the effective development of injectable and oral medications.

Moreover, methanol acts as a precursor for numerous pharmaceutical intermediates that are vital in the manufacturing of a wide array of drugs. The growing complexity of drug formulations necessitates a consistent supply of high-quality intermediates, thereby increasing the demand for methanol. In response to the COVID-19 pandemic, pharmaceutical companies are intensifying their research and development efforts to innovate and create new therapies, further underscoring the need for a dependable supply of methanol for new compound development.

The transition toward personalized medicine, which customizes treatments to meet individual patient needs, is propelling the demand for more specialized and complex pharmaceuticals. This trend requires advanced chemical synthesis techniques that heavily depend on methanol. Additionally, the rise of biopharmaceuticals, such as monoclonal antibodies and gene therapies, is opening new avenues for methanol utilization. It is employed in various bioprocesses, including fermentation and extraction methods, to produce these cutting-edge therapies.

## Key Market Challenges

### Volatility in Price of Feedstock

Methanol is predominantly produced from feedstocks such as natural gas, coal, and, to a lesser extent, biomass. Traditionally, natural gas has been the preferred feedstock due to its cost-effectiveness and relatively lower carbon emissions. As the primary feedstock for methanol production in numerous regions, natural gas prices are subject to fluctuations driven by various factors, including geopolitical tensions, supply chain disruptions, and seasonal demand variations. For example, colder weather can increase heating demand, resulting in higher natural gas prices.

In regions where coal is a key feedstock, price volatility can arise from regulatory changes aimed at reducing carbon emissions, potentially driving coal prices upward.

Moreover, market dynamics, such as shifts in demand from the power generation sector, can also influence coal pricing.

Although biomass is regarded as a more sustainable option, its pricing can be highly unpredictable due to factors like agricultural yields, competition with food production, and changes in land use. Such variability can impact the economic viability of methanol production using biomass.

Fluctuations in feedstock prices have a direct effect on methanol production costs. When feedstock prices increase, methanol producers may experience heightened costs that can erode their profit margins. This scenario can be particularly challenging for smaller producers who may lack the financial capacity to absorb these shocks.

The methanol market depends on price stability to attract investment and foster long-term contracts. Price volatility can deter potential investors and complicate strategic planning for existing players. This uncertainty may lead manufacturers to hesitate in expanding production capacities, ultimately affecting overall market growth.

## Key Market Trends

### Technological Advancements in Production of Methanol

Recent advancements in catalytic processes have significantly enhanced the efficiency of methanol synthesis. Traditional production methods typically depend on high temperatures and pressures, which lead to increased energy consumption and costs. However, the introduction of new catalysts, including advanced metal-organic frameworks and nanostructured materials, enables methanol production at lower temperatures and pressures. These innovations decrease energy usage and improve the overall yield and selectivity of methanol synthesis, making the process more economically viable.

The industry increasingly emphasizes the use of renewable feedstocks, such as biomass and municipal solid waste, for methanol production. Technologies that convert organic materials into syngas, a mixture of hydrogen and carbon monoxide, are gaining popularity. This approach addresses sustainability challenges by reducing dependency on fossil fuels and lessening the environmental impact associated with traditional feedstocks. The development of efficient gasification and fermentation technologies paves the way for integrating renewable resources into methanol production.

As environmental regulations become more stringent, the importance of carbon management technologies intensifies. Incorporating Carbon Capture and Utilization technologies into methanol production processes allows companies to capture CO<sub>2</sub> emissions and convert them into methanol. This strategy reduces the carbon footprint of methanol production and supports the circular economy by reusing waste carbon. Numerous companies invest in carbon capture technologies to enhance their sustainability profiles and meet emerging environmental regulations.

The emergence of modular and scalable methanol production units transforms the industry. These compact and flexible plants deploy in various locations and operate efficiently at different scales. This adaptability enables producers to respond swiftly to market demands and fluctuations in feedstock availability. Moreover, modular technologies require lower capital investments and shorter construction times, making them appealing options for new entrants and smaller producers.

The adoption of advanced automation and digital technologies also revolutionizes methanol production facilities. Integrating data analytics, machine learning, and Internet of Things solutions optimizes production processes, enhances operational efficiency, and minimizes downtime. These technologies enable real-time monitoring and predictive maintenance, empowering producers to boost productivity while reducing operational costs. As digital transformation progresses, the methanol industry stands to benefit significantly from these advancements, increasing its competitiveness in the global market.

## Segmental Insights

### Feedstock Insights

Based on Feedstock, Natural Gas have emerged as the fastest growing segment in the Global Methanol Market in 2023. Natural gas serves as one of the primary feedstocks for methanol production, offering a relatively low-cost source of carbon. The abundance of natural gas in various regions, particularly in North America and the Middle East, allows producers to benefit from competitive pricing, making methanol production more economically viable.

The production of methanol from natural gas through steam methane reforming (SMR) is a well-established and efficient process. This method allows for higher yields and lower energy consumption compared to other feedstocks, contributing to the overall growth of the methanol market.



Natural gas is often considered a cleaner-burning fossil fuel compared to coal or oil, producing fewer greenhouse gas emissions when combusted. As the global focus shifts towards reducing carbon footprints, the use of natural gas as a feedstock for methanol aligns with sustainability goals. This makes methanol produced from natural gas a more attractive option for various industries looking to lower their emissions.

While natural gas is a primary feedstock, methanol can also be produced from other sources, including coal and biomass. However, the flexibility and established infrastructure for utilizing natural gas in methanol production make it a preferred choice for many manufacturers. This adaptability supports the growth of the methanol market as companies seek to optimize their production processes.

### End User Insights

Based on End User, Pharmaceutical have emerged as the fastest growing segment in the Global Methanol Market during the forecast period. The pharmaceutical sector is increasingly adopting sustainable practices, including the use of renewable feedstocks for methanol production. This shift aligns with broader industry trends toward reducing environmental impact, further driving the demand for methanol. As regulatory standards become more stringent, pharmaceutical companies must ensure the quality and safety of their products. Methanol, as a high-purity solvent, plays a vital role in meeting these regulatory requirements. With an aging population and rising chronic diseases, the global demand for healthcare services is increasing. This trend drives the pharmaceutical industry's growth, consequently increasing the demand for methanol.

### Regional Insights

Based on Region, Asia Pacific have emerged as the dominating region in the Global Methanol Market in 2023. The Asia-Pacific region has a robust demand for methanol stemming from various industries, including chemicals, plastics, and pharmaceuticals. The rapid industrialization and urbanization in countries like China and India significantly contribute to the rising demand for methanol as a feedstock for producing chemicals and fuels.

The region boasts substantial methanol production capacity, primarily driven by major producers in countries such as China, which is the largest producer and consumer of methanol globally. The presence of advanced production facilities and technologies in these countries enhances their competitiveness in the methanol market.

Asia-Pacific countries, particularly China, have abundant and cost-effective feedstock options, such as natural gas and coal, which are essential for methanol production. The availability of these resources allows manufacturers to produce methanol at competitive prices, further boosting their market position.

The increasing energy consumption in the Asia-Pacific region, driven by population growth and economic development, fuels the demand for methanol as an alternative energy source. Methanol is gaining traction as a clean-burning fuel for transportation and power generation, contributing to its market growth.

### Key Market Players

BASF SE

Mitsui & Co., Ltd.

Celanese Corporation

Petrolia Nasional Berhad (PETRONAS)

SABIC

Methanex Corporation

MITSUBISHI GAS CHEMICAL COMPANY, INC.

Qatar Fuel Additives Company Limited

Zagros Petrochemical Company

OCI N.V.

### Report Scope

In this report, the Global Methanol Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:



### Methanol Market, By Feedstock:

- o Natural Gas
- o Coal
- o Biomass
- o Others

### Methanol Market, By End User:

- o Construction
- o Automotive
- o Electrical & Electronics
- o Pharmaceutical
- o Packaging
- o Paints & Coatings
- o Others

### Methanol Market, By Region:

- o North America

United States

Canada

Mexico

o Europe

France

United Kingdom

Italy

Germany

Spain

o Asia Pacific

China

India

Japan

Australia

South Korea

o South America

Brazil

Argentina

Colombia

o Middle East & Africa

South Africa

Saudi Arabia

UAE

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Methanol Market.

## Available Customizations:

Global Methanol Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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