

Global Dimethyl Ether (DME) Market Outlook to 2027

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Abstracts

Dimethyl Ether (DME, also known as methoxymethane) is an organic compound with CH_3OCH_3 , simplified to $\text{C}_2\text{H}_6\text{O}$. According to BlueQuark Research & Consulting, the global Dimethyl Ether (DME) market is expected to witness a significant growth rate during the forecasted period. Factors such as the growing demand for Dimethyl Ether (DME) in second-generation manufacturing biofuel, methylating agent, dimethyl sulfate, freeze sprays, blowtorch gas blends, and fuel in aerosol products are driving the Dimethyl Ether (DME) market. The surging demand for Dimethyl Ether in various end-user industries like the petroleum & Petrochemical, spray, Automotive industry is expected to increase the demand for Dimethyl Ether (DME). Dimethyl Ether (DME) is also potentially used as a substitute for propane in Liquid Petroleum Gas (LPG) used as a fuel in industry as well as households, being a significant factor for the growth of Global Dimethyl Ether (DME). Uses of DME have also increased for gas turbines and as a fuel in diesel engines. Another widespread use of Dimethyl Ether is as a refrigerant. DME is a refrigerant with the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) refrigerant designation R-E170. DME is also used in refrigerant blends with ammonia, carbon dioxide, butane, and propane, thus driving the global Dimethyl Ether (DME) Market. However, some unfavorable properties of DME like less viscosity, less lubricity, low boiling point, and poor networks of the supply chain can restraint the Global Dimethyl Ether Market.

Dimethyl Ether manufactures alkylating agents, dimethyl sulfate, freeze sprays, as a bio-fuel, blowtorch gas blends, propellant in aerosol products, substitute for propane in Liquid Petroleum Gas (LPG), fuel for industrial and household purposes, diesel engines, gas turbines, and refrigerant.

Liquified Petroleum Gas (LPG) is the most dominant application in Dimethyl Ether (DME) consumption as it can be blended with LPG at different ratios depending upon the purpose. It can potentially be used as a substitute for propane in LPG for enhancing

combustion and decreasing harmful emissions. It is also an excellent fuel in diesel engines and gas turbines as it has a high Cetane number of 55 compared to petroleum product (diesel) which has a cetane number of 40-53. Tiny modifications are required in diesel engines such that Dimethyl Ether can be used as a fuel. Due to the compound's short and straightforward carbon chains, the hazardous emissions after combustion are minimum, and the combination is also sulfur-free. Therefore, dimethyl ether has met even the most strict emission regulations in the U.S.A, Europe, and Japan, making it widely popular as fuel and substitute, thus driving the Global Dimethyl Ether Market. At an unofficial World Championship for mileage sponsored by the Oil giant Shell, a vehicle ran entirely on dimethyl ether. A fuel gave 589 km/liter mileage with a 2-stroke engine. Around one-fifth of the total dimethyl ether produced worldwide is used for LPG-DME blends. Dimethyl Ether is a portable compound as it can be stored, transported, and used anywhere. It does not require any fixed network and doesn't deteriorate over time. It is a multipurpose fuel and chemical feedstock that can be used for many applications, from automotive to electric power generations and producing olefins, synthesis gas, and hydrogen.

The Asia Pacific region is anticipated to be the largest consumer of Dimethyl Ether (DME) in the forecasted year. The growth is attributed to the development of the end-user industries, such as Petrochemical and propellant. Currently, the Asia-Pacific region accounts for around 85% of the total Dimethyl Ether (DME) market size in terms of value. Due to increased application and usefulness in several industries, less toxic emissions and environmental friendliness than traditional fuels are expected to drive the Dimethyl ether market in the region. Various other sectors have also explored dimethyl ether as a beneficial compound. The automotive industry is increasingly using DME in Asia-Pacific Region. The increasing environmental concerns and environment-friendly fuels will drive the global dimethyl ether market. Due to the presence of rich coal deposits in the Asia-Pacific region, it is believed that there is an abundance of Dimethyl Ether as well. Therefore, Dimethyl Ether produced from coal has the most significant share of the market rather than methanol, natural gas, or bio-based feedstock. China is the most dominant company in the global DME market, followed by Japan and Germany. India will also increase the Dimethyl Ether consumption due to its government's schemes which promote the use of DME blended LPG for household purposes, thus contributing to the growth of the DME market in the region.

The global Dimethyl Ether (DME) market was found to be fragmented. Major international players in the industry are Royal Dutch Shell Plc., The Chemours Company, Jiutai Energy Limited, Ferrostal GmbH, Zagros Petrochemical, Mitsubishi Corporation, Akzo Nobel N.V., Grillo Werke AG, Oberon Fuels.

In January 2021, India's Department of Science & Technology announced that India would play an essential role in the global energy space. It is likely to account for 25% of the growth in global energy demand by 2040. Dimethyl Ether (DME) and Methanol will play an essential role in improving India's energy security.

Global Dimethyl Ether (DME) Market report provides deep insight into the Industrial market's current and future state across various regions. The study comprehensively analyses the Dimethyl Ether (DME) market by segmenting based on the raw material (Coal, Methanol, Natural gas, Bio-based feedstock), Application (LPG Blending, Fuel, Aerosol Propellant, Others), End-User (Oil & Gas, Petrochemical, Spray Industry, Others), and Geography (Asia-Pacific, North America, Europe, South America, and Middle-East and Africa). This report examines the market drivers and restraints and the impact of Covid-19 on the market growth in detail. The study covers emerging market trends, developments, opportunities, and challenges in the industry. The report also covers extensively researched competitive landscape sections with prominent companies and profiles, including their market shares and projects.

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