

Europe Dimethyl Ether Market Forecast to 2030 – Regional Analysis – by Application (Aerosol Propellants, LPG Blending, Transportation Fuel, Power Generation Fuel, Chemical Feedstock, and Others)

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Abstracts

The Europe dimethyl ether market was valued at US\$ 1,780.50 million in 2022 and is expected to reach US\$ 3,640.36 million by 2030; it is estimated to grow at a CAGR of 9.4% from 2022 to 2030.

Flourishment of Aerosol Propellant Manufacturing Industry Fuel the Europe Dimethyl Ether Market

Dimethyl ether (DME) is a versatile and environmentally friendly propellant, and fuel has found increased application in the aerosol industry due to its unique properties that align with the changing preferences of both manufacturers and consumers. Aerosol propellants are essential in the formulations of various consumer products, household cleaners, and automotive products. Historically, chlorofluorocarbons (CFCs) were commonly used as a propellant. However, due to their harmful environmental impact and contribution to ozone depletion, there is increased demand for more eco-friendly alternatives. This led to the rise of hydrofluoroalkane (HFA) propellants and, subsequently, dimethyl ether. Dimethyl ether's popularity as an aerosol propellant has grown from several factors such as zero ozone-depleting potential, non-toxic, high solvency properties, non-corrosive nature, and low global warming potential. Dimethyl ether is nontoxic and noncorrosive, making it safe for consumers and the environment. Its high vapor pressure makes it an efficient and effective propellant that can disperse product formulations evenly and consistently. Also, DME is nonflammable in its aerosol form, reducing the risks associated with flammable propellants. The shift of the aerosol

industry toward environmentally friendly and safer alternatives, coupled with the unique properties of DME, has led to a surge in demand for dimethyl ether as a propellant. Manufacturers are keen to replace traditional, potentially harmful propellants with DME to align with regulatory standards and consumer preferences for sustainable and safe products. As a result, the growth of the aerosol propellant manufacturing industry has generated significant demand for DME. Manufacturers are investing in DME production to meet the rising demand from the aerosol sector. This, in turn, has led to innovations in DME production techniques, transportation infrastructure, and application methods. The favorable environmental profile of DME, along with its functional benefits in aerosol formulations, positions it as a crucial component in the ongoing evolution of the aerosol industry.

Europe Dimethyl Ether Market Overview

Europe's sustainability goals and transition toward clean energy sources have prompted the manufacturers to produce DME from renewable feedstock. In 2021, SHV Energy and UGI International received approval from the European Commission to form a joint venture to produce and utilize renewable dimethyl ether. In 2022, Dimeta was established to increase the production and utilization of DME. The organization aimed to develop up to six production plants, with a DME capacity of up to ~300 thousand metric ton, by 2027. Several projects are located in Northwest Europe, with each anticipated to produce ~165 thousand metric ton of renewable and recycled carbon DME per year from mixed residual waste. The growing preference for sustainable and renewable feedstocks for the production of chemicals aligns with the environmental goals of Europe. Europe has explored the production of DME from biomass through gasification and synthesis processes. In 2020, European Commission funded project "FLExible Dimethyl ether production from biomass Gasification with sorption-enhanced processes (FLEDGED)" was completed. The project aimed to develop a low cost and efficient, flexible sorption enhanced gasification process for producing DME from biomass and its validation in industrial conditions. Further, the European Commission's efforts to decarbonize the transportation sector and encourage alternative fuel are driving the Europe dimethyl ether market.

Europe Dimethyl Ether Market Revenue and Forecast to 2030 (US\$ Million)

Europe Dimethyl Ether Market Segmentation

The Europe dimethyl ether market is segmented based on application and country.

Based on application, the Europe dimethyl ether market is segmented into aerosol propellants, LPG blending, transportation fuel, power generation fuel, chemical feedstock, and others. The LPG blending segment held the largest market share in 2022.

Based on country, the Europe dimethyl ether market is segmented into Germany, France, Italy, the UK, Russia, and the Rest of Europe. The Rest of Europe dominated the Europe dimethyl ether market share in 2022.

Nouryon Chemicals Holding BV, Shell Plc, Mitsubishi Gas Chemical Co Inc, The Chemours Co, Grillo-Werke AG, Aerosolex, and Merck KGaA are some of the leading players operating in the Europe dimethyl ether market.

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