

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

<https://marketpublishers.com/r/N979CD15FC33EN.html>

Date: January 2024

Pages: 72

Price: US\$ 3,550.00 (Single User License)

ID: N979CD15FC33EN

## Abstracts

The North America dimethyl ether market was valued at US\$ 2,154.47 million in 2022 and is expected to reach US\$ 4,442.14 million by 2030; it is estimated to grow at a CAGR of 9.5% from 2022 to 2030.

### Growing Use of Dimethyl Ether in LPG Blending fuel the North America Dimethyl Ether Market

In recent years, the demand for dimethyl ether (DME) as a blending component with liquified petroleum gas (LPG) has increased for several reasons. This trend is driven by the desire to enhance the properties of LPG, making it a more efficient and environmentally friendly fuel option. Blending DME with LPG offers numerous benefits that cater to economic and environmental considerations. LPG is already recognized as a relatively clean-burning fossil fuel, but the addition of DME further improves its combustion characteristics. DME has a high cetane number, which enhances the ignition quality of the fuel. When blended with LPG, it promotes more complete combustion, resulting in reduced emissions of harmful pollutants, including particulate matter, sulfur compounds, and nitrogen oxides (NOx). This cleaner combustion aligns with stricter environmental regulations and the global push toward reducing air pollution and greenhouse gas emissions. The compatibility of DME and LPG makes blending a seamless process. DME has similar physical properties to LPG, such as being gaseous at room temperature and readily liquified under moderate pressure. This compatibility ensures that DME-LPG blends can be stored, transported, and dispensed using existing

LPG infrastructure, such as storage tanks, distribution networks, and refueling stations. This aspect significantly lowers the barriers to entry for adopting DME-LPG blends and enables more rapid integration into existing energy systems. DME-LPG blends offer a transitional solution as industries and governments seek to diversify their energy sources and reduce dependency on traditional fossil fuels. According to the International DME Association, over 50% of the global dimethyl ether is blended with LPG. This blending strategy aligns with the broader goal of achieving cleaner energy use without requiring a complete infrastructure overhaul. It provides an avenue to reduce the environmental footprint of energy consumption without requiring significant changes in vehicle or equipment technology. The increasing awareness regarding the advantages of DME-LPG blends promotes a more sustainable and efficient energy landscape, thereby driving the North America dimethyl ether market expansion.

### North America Dimethyl Ether Market Overview

The rising focus on research and development of DME is favoring the market expansion in North America. In 2021, the US Department of Energy Vehicle Technologies Office (VTO) awarded more than US\$ 4 million in funding to test varied DME applications as a low-carbon alternative to fossil fuels. Moreover, in 2022, the US government invested in infrastructure, technology, and manufacturing to reduce greenhouse gas emissions by 50–52% by 2030. The region witnessed rising utilization and production of renewable and recycled carbon DME. Several regional companies are involved in developing commercial-scale waste-to-methanol production and methanol-to-DME production. In 2023, Enerkem Inc. and Dimeta announced feasibility studies for developing two large-scale projects to convert waste into renewable and recycled carbon DME. The adoption of DME in the region is also significantly influenced by regulatory frameworks, decarbonization of the transportation sector, and environmental regulations. In 2022, Stanadyne LLC launched a multipurpose port injector for delivering hydrogen, natural gas, and DME fuels in medium-duty and heavy-duty commercial vehicle powertrains in the US. The concerns about climate change, the need for clean transportation fuel, and the requirement for alternative fuel are a few factors expected to drive the demand for dimethyl ether (DME) in North America during the forecast period.

### North America Dimethyl Ether Market Revenue and Forecast to 2030 (US\$ Million)

### North America Dimethyl Ether Market Segmentation

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

Based on application, the North America 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 North America dimethyl ether market is segmented into the US, Canada, and Mexico. The US dominated the North America dimethyl ether market share in 2022.

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

## Contents

### **1. INTRODUCTION**

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

### **2. EXECUTIVE SUMMARY**

- 2.1 Key Insights
- 2.2 Market Attractiveness
  - 2.2.1 Market Attractiveness

### **3. RESEARCH METHODOLOGY**

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

### **4. NORTH AMERICA DIMETHYL ETHER MARKET LANDSCAPE**

- 4.1 Overview
- 4.2 Porter's Five Forces Analysis
- 4.3 Ecosystem Analysis

### **5. NORTH AMERICA DIMETHYL ETHER MARKET – KEY MARKET DYNAMICS**

- 5.1 Market Drivers
  - 5.1.1 Growing Use of Dimethyl Ether in LPG Blending
  - 5.1.2 Flourishment of Aerosol Propellant Manufacturing Industry
- 5.2 Market Restraints
  - 5.2.1 Availability of Substitute Products
- 5.3 Market Opportunities
  - 5.3.1 Growing Demand for Clean Transportation Fuel
- 5.4 Future Trends
  - 5.4.1 Rising Adoption of Renewable Dimethyl Ether
- 5.5 Impact Analysis

### **6. DIMETHYL ETHER MARKET - NORTH AMERICA MARKET ANALYSIS**

- 6.1 North America Dimethyl Ether Market Volume (Tons)
- 6.2 North America Dimethyl Ether Market Revenue (US\$ Million)
- 6.3 North America Dimethyl Ether Market Forecast and Analysis

## **7. NORTH AMERICA DIMETHYL ETHER MARKET ANALYSIS - APPLICATION**

### 7.1 Aerosol Propellants

- 7.1.1 Overview
- 7.1.2 Aerosol Propellants Market Revenue, and Forecast to 2030 (US\$ Million)
- 7.1.3 Aerosol Propellants Market Revenue, and Forecast to 2030 (Tons)

### 7.2 LPG Blending

- 7.2.1 Overview
- 7.2.2 LPG Blending Market Revenue and Forecast to 2030 (US\$ Million)
- 7.2.3 LPG Blending Market Revenue, and Forecast to 2030 (Tons)

### 7.3 Transportation Fuel

- 7.3.1 Overview
- 7.3.2 Transportation Fuel Market Revenue and Forecast to 2030 (US\$ Million)
- 7.3.3 Transportation Fuel Market Revenue, and Forecast to 2030 (Tons)

### 7.4 Power Generation Fuel

- 7.4.1 Overview
- 7.4.2 Power Generation Fuel Market Revenue and Forecast to 2030 (US\$ Million)
- 7.4.3 Power Generation Fuel Market Revenue, and Forecast to 2030 (Tons)

### 7.5 Chemical Feedstock

- 7.5.1 Overview
- 7.5.2 Chemical Feedstock Market Revenue and Forecast to 2030 (US\$ Million)
- 7.5.3 Chemical Feedstock Market Revenue, and Forecast to 2030 (Tons)

### 7.6 Others

- 7.6.1 Overview
- 7.6.2 Others Market Revenue and Forecast to 2030 (US\$ Million)
- 7.6.3 Others Market Revenue, and Forecast to 2030 (Tons)

## **8. NORTH AMERICA DIMETHYL ETHER MARKET - COUNTRY ANALYSIS**

### 8.1 North America

- 8.1.1 North America Dimethyl Ether Market Overview
- 8.1.2 North America Dimethyl Ether Market Revenue and Forecasts and Analysis - By Countries
  - 8.1.2.1 North America Dimethyl Ether Market Breakdown by Country

- 8.1.2.2 US Dimethyl Ether Market Volume and Forecasts to 2030 (Tons)
- 8.1.2.3 US Dimethyl Ether Market Revenue and Forecasts to 2030 (US\$ Million)
  - 8.1.2.3.1 US Dimethyl Ether Market Breakdown by Application
  - 8.1.2.3.2 US Dimethyl Ether Market Breakdown by Application
- 8.1.2.4 Canada Dimethyl Ether Market Volume and Forecasts to 2030 (Tons)
- 8.1.2.5 Canada Dimethyl Ether Market Revenue and Forecasts to 2030 (US\$ Million)
  - 8.1.2.5.1 Canada Dimethyl Ether Market Breakdown by Application
  - 8.1.2.5.2 Canada Dimethyl Ether Market Breakdown by Application
- 8.1.2.6 Mexico Dimethyl Ether Market Volume and Forecasts to 2030 (Tons)
- 8.1.2.7 Mexico Dimethyl Ether Market Revenue and Forecasts to 2030 (US\$ Million)
  - 8.1.2.7.1 Mexico Dimethyl Ether Market Breakdown by Application
  - 8.1.2.7.2 Mexico Dimethyl Ether Market Breakdown by Application

## **9. COMPETITIVE LANDSCAPE**

- 9.1 Heat Map Analysis by Key Players

## **10. INDUSTRY LANDSCAPE**

- 10.1 Overview
- 10.2 Market Initiative
- 10.3 Merger and Acquisition

## **11. COMPANY PROFILES**

- 11.1 Nouryon Chemicals Holding BV
  - 11.1.1 Key Facts
  - 11.1.2 Business Description
  - 11.1.3 Products and Services
  - 11.1.4 Financial Overview
  - 11.1.5 SWOT Analysis
  - 11.1.6 Key Developments
- 11.2 Shell Plc
  - 11.2.1 Key Facts
  - 11.2.2 Business Description
  - 11.2.3 Products and Services
  - 11.2.4 Financial Overview
  - 11.2.5 SWOT Analysis
  - 11.2.6 Key Developments

### 11.3 Mitsubishi Gas Chemical Co Inc

- 11.3.1 Key Facts
- 11.3.2 Business Description
- 11.3.3 Products and Services
- 11.3.4 Financial Overview
- 11.3.5 SWOT Analysis
- 11.3.6 Key Developments

### 11.4 The Chemours Co

- 11.4.1 Key Facts
- 11.4.2 Business Description
- 11.4.3 Products and Services
- 11.4.4 Financial Overview
- 11.4.5 Key Developments

### 11.5 Oberon Fuels Inc

- 11.5.1 Key Facts
- 11.5.2 Business Description
- 11.5.3 Products and Services
- 11.5.4 Financial Overview
- 11.5.5 SWOT Analysis
- 11.5.6 Key Developments

### 11.6 Merck KGaA

- 11.6.1 Key Facts
- 11.6.2 Business Description
- 11.6.3 Products and Services
- 11.6.4 Financial Overview
- 11.6.5 SWOT Analysis
- 11.6.6 Key Developments

### 11.7 Grillo-Werke AG

- 11.7.1 Key Facts
- 11.7.2 Business Description
- 11.7.3 Products and Services
- 11.7.4 Financial Overview
- 11.7.5 SWOT Analysis
- 11.7.6 Key Developments

## 12. APPENDIX

## List Of Tables

### LIST OF TABLES

Table 1. North America Dimethyl Ether Market Segmentation. 9

Table 2. North America Dimethyl Ether Market Volume and Forecasts To 2030 (Tons)

Table 3. North America Dimethyl Ether Market Revenue and Forecasts To 2030 (US\$ Million)

Table 4. US Dimethyl Ether Market Volume and Forecasts To 2030 (Tons) – By Application

Table 5. US Dimethyl Ether Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 6. Canada Dimethyl Ether Market Volume and Forecasts To 2030 (Tons) – By Application

Table 7. Canada Dimethyl Ether Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 8. Mexico Dimethyl Ether Market Volume and Forecasts To 2030 (Tons) – By Application

Table 9. Mexico Dimethyl Ether Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 10. Company Positioning & Concentration



## List Of Figures

### LIST OF FIGURES

- Figure 1. North America Dimethyl Ether Market Segmentation, By Country. 9
- Figure 2. Porter's Five Forces Analysis
- Figure 3. Ecosystem: North America Dimethyl Ether Market
- Figure 4. North America Dimethyl Ether Market Impact Analysis of Drivers and Restraints
- Figure 5. North America Dimethyl Ether Market Volume (Tons), 2020 – 2030
- Figure 6. North America Dimethyl Ether Market Revenue (US\$ Million), 2020 – 2030
- Figure 7. North America Dimethyl Ether Market Share (%) – Application, 2022 and 2030
- Figure 8. Aerosol Propellants Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 9. Aerosol Propellants Market Revenue (Tons), 2020 – 2030
- Figure 10. LPG Blending Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 11. LPG Blending Market Revenue (Tons), 2020 – 2030
- Figure 12. Transportation Fuel Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 13. Transportation Fuel Market Revenue (Tons), 2020 – 2030
- Figure 14. Power Generation Fuel Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 15. Power Generation Fuel Market Revenue (Tons), 2020 – 2030
- Figure 16. Chemical Feedstock Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 17. Chemical Feedstock Market Revenue (Tons), 2020 – 2030
- Figure 18. Others Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 19. Others Market Revenue (Tons), 2020 – 2030
- Figure 20. North America Dimethyl Ether Market Breakdown by Key Countries – Revenue (2022) (US\$ Million)
- Figure 21. North America Dimethyl Ether Market Breakdown by Key Countries, 2022 and 2030 (%)
- Figure 22. US Dimethyl Ether Market Volume and Forecasts To 2030 (Tons)
- Figure 23. US Dimethyl Ether Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 24. Canada Dimethyl Ether Market Volume and Forecasts To 2030 (Tons)
- Figure 25. Canada Dimethyl Ether Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 26. Mexico Dimethyl Ether Market Revenue and Forecasts To 2030 (Tons)
- Figure 27. Mexico Dimethyl Ether Market Revenue and Forecasts To 2030 (US\$ Million)

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