

Nitromethane Market Size and Share Outlook - Forecast Trends and Growth Analysis Report (2025-2034)

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Report description:

The global nitromethane market reached a value of nearly USD 235.21 Million in 2024. The market is assessed to grow at a CAGR of 5.70% during the forecast period of 2025-2034 to attain a value of around USD 409.45 Million by 2034. The market growth can be attributed to the increasing demand for high-performance vehicles and motorsports, the increasing focus on sustainability, the growing demand for agrochemicals, and innovations in production methods.

Nitromethane Market Overview

Nitromethane is frequently employed as a solvent in industrial settings, used to produce explosives and fuel, which boosts the nitromethane demand. The chemical is also used as a monopropellant since it requires less oxygen for combustion. As it is a versatile material with several uses, nitromethane is employed in a wide range of industries, which expands its market.

In dry cleaning, degreasing processes, and semiconductor processing, nitromethane is used to stabilise chlorinated solvents. It is also used as a dissolving agent or solvent for acrylate monomers, which are then used to make adhesives.

Nitromethane Market Growth

The most basic organic nitro chemical, nitromethane is a polar liquid that is largely utilised as a solvent in a range of industrial applications, including extractions, as a reaction medium, and as a cleaning solvent. It is frequently used in the production of medications, insecticides, explosives, fibres, and coatings as an intermediate in organic synthesis. Moreover, in the fibres and coatings sector, nitromethane plays a vital role as a solvent, boosting the growth of the nitromethane industry. Its capacity to promote chemical reactions is key in the manufacturing of synthetic fibres and coatings, ensuring uniform application and strong adhesion of coating materials to different surfaces.

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The chemical is readily used as a cleaning solvent for industrial equipment due to its efficiency in dissolving a variety of residues, including both organic and inorganic compounds. Its polar nature is also beneficial in extraction processes, facilitating the separation of different materials in both laboratory environments and large-scale chemical production.

Key Trends and Developments

Increasing demand for agrochemicals; robust growth of the automotive sector; growing emphasis on sustainability; and innovations in production methods are favouring the nitromethane market expansion.

December 2021

The National Hot Rod Association (NHRA) has been using nitromethane as a primary fuel for drag racing. This fuel is known for its high-power output, which is essential for top-fuel drag racing.

April 2021

A study was conducted to examine the behaviour of nitromethane under shock-wave conditions, specifically looking at the collapse of bubbles in the liquid and the development of hot spots. This research has significant practical use for its application as an explosive.

March 2021

In 2021, a group of researchers conducted extensive simulations using molecular dynamics to explore how vibrational energy is redistributed in crystalline nitromethane. This study explained energy transfer at the molecular level in nitromethane, which is essential for its safe and effective use in explosives and propulsion systems.

October 2020

Ardian acquired a 50% ownership stake in ANGUS Chemical Company from Golden Gate Capital at a total enterprise value of nearly USD 2.25 billion. This is expected to mark the company's foray into the nitromethane segment, boosting its utilisation in diverse applications ranging from automotive racing to pharmaceuticals.

Increased Use in Agrochemicals

Nitromethane is widely used as the main ingredient in the manufacturing of agrochemicals. With the rising global demand for these products, especially in developing countries, the use of nitromethane is expected to grow. For instance, India is the fourth-largest producer of agrochemicals globally, showcasing significant growth potential in the sector. The government is readily focusing on innovation and digital technologies, including the implementation of agricultural drones, to improve the agrochemical sector. The agrochemical sector in India is one of its "champion industries". This can increase the growth of the nitromethane market as nitromethane is widely used as a solvent due to its excellent solvent nature. It can effectively dissolve organic compounds, aiding in the formulation of certain pesticides. Furthermore, Brazil is one of the top consumers of agrochemicals in the world, with over 3,000 registered agrochemical products, which is boosting the use of nitromethane as a solvent and intermediate in the country.

Robust growth of the automotive sector

The robust growth of the automotive sector is creating significant nitromethane market opportunities. The chemical is widely

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employed in motorsports, especially in drag racing and other racing events requiring high-performance and high-octane fuels. The increasing number of motorsport events and the rising popularity of high-performance and racing-inspired vehicles are surging the usage of nitromethane to improve the engine performance of vehicles. In addition to this, nitromethane is used as a reagent and solvent in chemical manufacturing, including the production of automotive-related chemicals. Hence, the rising demand for chemicals such as paints, lubricants, coatings, and adhesives in automobile production is aiding the market. In the forecast period, the increasing shift towards autonomous vehicles and smart car technologies are expected to bolster the use of nitromethane in chemical synthesis applications.

Growing focus on sustainability

The rising emphasis on sustainability is revolutionising the nitromethane market landscape. With governments globally introducing stringent environmental measures for the chemical sector, key players are increasingly investing in research activities to develop bio-based nitromethane to meet the growing demand for eco-friendly products. They are also attempting to utilise sustainable feedstocks, such as water-derived or plant-based sources to sustainably produce nitromethane. Moreover, advancements in production technology aimed at making the synthesis of nitromethane more energy-efficient are anticipated to fuel the market. Sustainability is also becoming a crucial factor in production decisions in the agrochemical and pharmaceutical sectors, leading to a surge in the demand for environmentally friendly alternatives to chemicals, including nitromethane.

Rising Innovation in Production Methods

Several companies are readily investing in improving production processes in order to boost the efficiency and cost-effectiveness of nitromethane manufacturing. Innovations in catalysis and synthesis methods are reducing environmental impacts and decreasing production costs, which can improve their market reach. Advancements in catalysis have played a crucial role, with the rise of heterogeneous catalysis, which improves both reaction rates and selectivity and can contribute to nitromethane market value. Catalysts engineered in nano-structured or single-atom forms have shown effectiveness for industrial applications. Furthermore, the integration of machine learning has facilitated the optimisation of catalyst design, enhanced efficiency and reducing the environmental impact of chemical manufacturing.

Global Nitromethane Market Trends

The nitromethane market is experiencing growth due to increased use in agrochemicals, where it acts as a solvent in pesticide formulations, especially in India and Brazil, which are major consumers. The automotive sector's expansion, particularly in motorsports and high-performance vehicles, further boosts nitromethane demand. Additionally, the growing focus on sustainability is driving innovation, with companies investing in bio-based nitromethane and energy-efficient production methods. Advancements in catalysis and machine learning are enhancing production efficiency, making it more cost-effective and environmentally friendly, thus expanding the market's reach in agrochemical, automotive, and other sectors.

Opportunities in Nitromethane Market

Nitromethane is finding usage in the pharmaceutical sector as a solvent and as an intermediate in chemical synthesis. Its reactive nitro group makes it especially beneficial for the development of pharmaceutical intermediates and active pharmaceutical ingredients. For instance, in the United States, the pharmaceutical sector is expected to have a growth rate of 2.9% in 2024, maintaining a strong emphasis on therapies for chronic illnesses such as diabetes and cancer. The market for branded medications is witnessing robust sales due to new therapeutic approvals and advancements in gene therapies, especially within the field of oncology, which can contribute to the demand of nitromethane market.

Meanwhile, China's pharmaceutical sector is projected to grow by 7.7% in 2024, prioritising the production of high-quality

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medications and innovations in biopharmaceuticals. This expansion is fuelled by government initiatives aimed at improving domestic manufacturing capabilities and research and development efforts to reduce dependency on generic drugs.

Nitromethane Market Restraints

Nitromethane is an extremely volatile and flammable compound, posing significant risks during its production, storage, and handling. This has led several strict regulations to be imposed on it, particularly in regions with rigorous safety and environmental standards. For instance, in North America and Europe, environmental laws restrict the use of nitromethane in ways that could lead to pollution or health risks from toxic byproducts. Several companies face additional compliance costs to ensure safe handling and reduce emissions, which may reduce the nitromethane market revenue.

Another major challenge is the high cost and price volatility of the raw materials required for nitromethane production. The manufacturing processes often demand proper management of hazardous materials, which not only raises operational costs but also limits production scalability.

Nitromethane Industry Segmentation

□Global Nitromethane Market Report and Forecast 2025-2034□ offers a detailed analysis of the market based on the following segments:

Based on application, the market is segmented into:

- Explosive
- Chemical Intermediate
- Solvent
- Fuel and Fuel Additives
- Others

The regional markets for nitromethane can be divided into:

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Nitromethane Market Share

By Application Insights

Fuel and fuel additives account for a significant nitromethane market share. As nitromethane burns more slowly than gasoline, it is often utilised as a fuel additive in a variety of motorsports and pastimes, such as Top Fuel drag racing and miniature internal combustion engines in radio-controlled and free-flight model aircraft. Methanol is often used to dilute nitromethane before usage. The primary benefit of nitromethane is that it is less energetic than gasoline and generates significantly more power from each explosion inside the engine.

Compared to gasoline, it requires a substantially smaller volume of air for combustion, allowing more nitromethane fuel to be

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burned with each engine stroke, resulting in high engine output. This is aiding the nitromethane market growth.

Similar to trinitrotoluene (TNT), nitromethane is also used as a controlled explosive in a variety of sectors due to its stability and high energy content. Increasing defence spending and the rising production of rocket propellants, explosives, and other military-grade equipment are driving the demand for nitromethane.

As per the nitromethane market analysis, the chemical is extensively used as a chemical intermediate in the production of various chemicals, ranging from pharmaceutical compounds to fertilisers. It is also a building block in different chemical syntheses and significantly contributes to the production of speciality chemicals in sectors like coatings, paints, and plastics.

Nitromethane is used as a solvent in several chemical processes in organic synthesis. Due to its ability to dissolve various organic compounds, nitromethane is also used as a solvent in the pharmaceutical and chemical sectors.

Nitromethane Market Regional Analysis

North America Nitromethane Market Drivers

The market growth in the region is driven by the use of nitromethane in motorsports, especially within the United States. This compound is widely used as a fuel additive in drag racing and various high-performance racing disciplines, as it greatly enhances power output and optimises engine performance. As per the nitromethane market dynamics and trends, its popularity is readily growing in the USA where drag racing has a rich cultural heritage.

Europe Nitromethane Market Outlook

Stringent environmental regulations in the region are fuelling the advancement of cleaner production methods for nitromethane. This chemical plays a significant role in the manufacturing of agrochemicals, pharmaceuticals, and coatings, which are crucial for the high-end manufacturing sectors and can further boost the nitromethane demand growth. Europe's commitment to lowering carbon emissions is driving research into sustainable and environmentally friendly applications of nitromethane.

Asia Pacific Nitromethane Market Trends

The Asia Pacific is anticipated to hold a significant market share for nitromethane during the forecast period. This can be attributed to the expansion of the automobile sector and rising regional demand for pharmaceutical goods. China is a leading manufacturer of chemicals, paints, coatings, and pharmaceuticals in the Asia Pacific and can increase nitromethane market opportunities. In the forecast period, this factor is anticipated to drive the nitromethane market in the region.

Latin America Nitromethane Market Overview

In the coming years, the nitromethane market is expected to witness robust growth in Latin America. Several businesses have industrial centres in these nations. Opportunities in the Latin America region during the forecast period are likely to result from the economic growth of these nations. The nitromethane industry revenue has also increased with the rise of the agricultural sector in the region, which is becoming more reliant on agrochemicals, with nitromethane serving as an essential intermediate. Brazil, in particular, shows a strong demand for agricultural chemicals due to its large-scale farming activities.

Middle East and Africa Nitromethane Market Dynamics

The MEA region presents significant growth opportunities owing to the needs of the construction and explosives end-use sectors,

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which rely on nitromethane for purposes such as fuel additives and chemical intermediates and can positively impact the nitromethane demand forecast. With the MEA region prioritising economic diversification, particularly in the Gulf nations, there is a consistent rise in the demand for nitromethane within industrial manufacturing.

Competitive Landscape

Several companies are increasing their production to satisfy the growing demand. For instance, they are increasing their manufacturing capabilities in developed countries like China. This growth strategy aims to establish an expanding market in the Asia-Pacific region, where there is rising demand in sectors such as automotive racing, chemical manufacturing, and various industrial applications. Additionally, companies are adopting more environmentally friendly manufacturing processes. They are introducing a bio-based production method for nitromethane, which aligns with sustainable production practices that are becoming increasingly crucial as environmental regulations become stricter.

Linyi Yuanbo Chemical Co., Ltd.

Linyi Yuanbo Chemical Co., Ltd. is a rapidly expanding high-tech chemical company, was founded in 2006 and specialises in the production and distribution of fine chemicals and pharmaceutical raw materials. The company boasts 100,000 tonnes of existing supply capacity of dimethyl sulfide and 6,000 tons per year of nitromethane.

Angus Chemical Company

Angus Chemical Company, headquartered in Illinois, United States, is a leading speciality chemical company. The company is committed to enhancing the quality of life by providing products and knowledge to the most vital sectors of the global economy. Established in 1940, it manufactures chemicals for use in paints, water treatment, solvents, metalworking, wood, fuel, and other applications.

Wujiang Bolin Industry Co., Ltd

Wujiang Bolin Industry Co., Ltd has emerged as a prominent manufacturer of pharmaceutical intermediates and sulphonamides, among other chemical goods. The business is based in China and was established in 1997. The main products of the company include Thiocetic acid, nitromethane, 4-toluenesulfonyl chloride, hydroxylamine hydrochloride, and chlorosulfonic acid. The company's products are of export standards, with destination regions including Southeast Asia, North America, and Europe.

Vizag Chemical International

Vizag Chemical International, headquartered in Andhra Pradesh, India, is a chemical manufacturing company that caters to the different needs of the marine sector. It is also engaged in the production of various chemicals, including speciality solvents, industrial chemicals, and performance chemicals, for use in sectors such as automotive, agriculture, construction, and pharmaceuticals.

Table of Contents:

- 1 Executive Summary
- 1.1 Market Size 2024-2025
- 1.2 Market Growth 2025(F)-2034(F)

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- 1.3 Key Demand Drivers
- 1.4 Key Players and Competitive Structure
- 1.5 Industry Best Practices
- 1.6 Recent Trends and Developments
- 1.7 Industry Outlook
- 2 Market Overview and Stakeholder Insights
 - 2.1 Market Trends
 - 2.2 Key Verticals
 - 2.3 Key Regions
 - 2.4 Supplier Power
 - 2.5 Buyer Power
 - 2.6 Key Market Opportunities and Risks
 - 2.7 Key Initiatives by Stakeholders
- 3 Economic Summary
 - 3.1 GDP Outlook
 - 3.2 GDP Per Capita Growth
 - 3.3 Inflation Trends
 - 3.4 Democracy Index
 - 3.5 Gross Public Debt Ratios
 - 3.6 Balance of Payment (BoP) Position
 - 3.7 Population Outlook
 - 3.8 Urbanisation Trends
- 4 Country Risk Profiles
 - 4.1 Country Risk
 - 4.2 Business Climate
- 5 Global Nitromethane Market Analysis
 - 5.1 Key Industry Highlights
 - 5.2 Global Nitromethane Historical Market (2018-2024)
 - 5.3 Global Nitromethane Market Forecast (2025-2034)
 - 5.4 Global Nitromethane Market by Application
 - 5.4.1 Explosive
 - 5.4.1.1 Market Share
 - 5.4.1.2 Historical Trend (2018-2024)
 - 5.4.1.3 Forecast Trend (2025-2034)
 - 5.4.2 Chemical Intermediate
 - 5.4.2.1 Market Share
 - 5.4.2.2 Historical Trend (2018-2024)
 - 5.4.2.3 Forecast Trend (2025-2034)
 - 5.4.3 Solvent
 - 5.4.3.1 Market Share
 - 5.4.3.2 Historical Trend (2018-2024)
 - 5.4.3.3 Forecast Trend (2025-2034)
 - 5.4.4 Fuel and Fuel Additives
 - 5.4.4.1 Market Share
 - 5.4.4.2 Historical Trend (2018-2024)
 - 5.4.4.3 Forecast Trend (2025-2034)
 - 5.4.5 Others

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5.5 Global Nitromethane Market by Region

5.5.1 North America

5.5.1.1 Market Share

5.5.1.2 Historical Trend (2018-2024)

5.5.1.3 Forecast Trend (2025-2034)

5.5.2 Europe

5.5.2.1 Market Share

5.5.2.2 Historical Trend (2018-2024)

5.5.2.3 Forecast Trend (2025-2034)

5.5.3 Asia Pacific

5.5.3.1 Market Share

5.5.3.2 Historical Trend (2018-2024)

5.5.3.3 Forecast Trend (2025-2034)

5.5.4 Latin America

5.5.4.1 Market Share

5.5.4.2 Historical Trend (2018-2024)

5.5.4.3 Forecast Trend (2025-2034)

5.5.5 Middle East and Africa

5.5.5.1 Market Share

5.5.5.2 Historical Trend (2018-2024)

5.5.5.3 Forecast Trend (2025-2034)

6 North America Nitromethane Market Analysis

6.1 United States of America

6.1.1 Market Share

6.1.2 Historical Trend (2018-2024)

6.1.3 Forecast Trend (2025-2034)

6.2 Canada

6.2.1 Market Share

6.2.2 Historical Trend (2018-2024)

6.2.3 Forecast Trend (2025-2034)

7 Europe Nitromethane Market Analysis

7.1 United Kingdom

7.1.1 Market Share

7.1.2 Historical Trend (2018-2024)

7.1.3 Forecast Trend (2025-2034)

7.2 Germany

7.2.1 Market Share

7.2.2 Historical Trend (2018-2024)

7.2.3 Forecast Trend (2025-2034)

7.3 France

7.3.1 Market Share

7.3.2 Historical Trend (2018-2024)

7.3.3 Forecast Trend (2025-2034)

7.4 Italy

7.4.1 Market Share

7.4.2 Historical Trend (2018-2024)

7.4.3 Forecast Trend (2025-2034)

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7.5 Others

8 Asia Pacific Nitromethane Market Analysis

8.1 China

8.1.1 Market Share

8.1.2 Historical Trend (2018-2024)

8.1.3 Forecast Trend (2025-2034)

8.2 Japan

8.2.1 Market Share

8.2.2 Historical Trend (2018-2024)

8.2.3 Forecast Trend (2025-2034)

8.3 India

8.3.1 Market Share

8.3.2 Historical Trend (2018-2024)

8.3.3 Forecast Trend (2025-2034)

8.4 ASEAN

8.4.1 Market Share

8.4.2 Historical Trend (2018-2024)

8.4.3 Forecast Trend (2025-2034)

8.5 Australia

8.5.1 Market Share

8.5.2 Historical Trend (2018-2024)

8.5.3 Forecast Trend (2025-2034)

8.6 Others

9 Latin America Nitromethane Market Analysis

9.1 Brazil

9.1.1 Market Share

9.1.2 Historical Trend (2018-2024)

9.1.3 Forecast Trend (2025-2034)

9.2 Argentina

9.2.1 Market Share

9.2.2 Historical Trend (2018-2024)

9.2.3 Forecast Trend (2025-2034)

9.3 Mexico

9.3.1 Market Share

9.3.2 Historical Trend (2018-2024)

9.3.3 Forecast Trend (2025-2034)

9.4 Others

10 Middle East and Africa Nitromethane Market Analysis

10.1 Saudi Arabia

10.1.1 Market Share

10.1.2 Historical Trend (2018-2024)

10.1.3 Forecast Trend (2025-2034)

10.2 United Arab Emirates

10.2.1 Market Share

10.2.2 Historical Trend (2018-2024)

10.2.3 Forecast Trend (2025-2034)

10.3 Nigeria

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- 10.3.1 Market Share
- 10.3.2 Historical Trend (2018-2024)
- 10.3.3 Forecast Trend (2025-2034)
- 10.4 South Africa
 - 10.4.1 Market Share
 - 10.4.2 Historical Trend (2018-2024)
 - 10.4.3 Forecast Trend (2025-2034)
- 10.5 Others
- 11 Market Dynamics
 - 11.1 SWOT Analysis
 - 11.1.1 Strengths
 - 11.1.2 Weaknesses
 - 11.1.3 Opportunities
 - 11.1.4 Threats
 - 11.2 Porter's Five Forces Analysis
 - 11.2.1 Supplier's Power
 - 11.2.2 Buyer's Power
 - 11.2.3 Threat of New Entrants
 - 11.2.4 Degree of Rivalry
 - 11.2.5 Threat of Substitutes
 - 11.3 Key Indicators for Demand
 - 11.4 Key Indicators for Price
- 12 Value Chain Analysis
- 13 Price Analysis
- 14 Competitive Landscape
 - 14.1 Supplier Selection
 - 14.2 Key Global Players
 - 14.3 Key Regional Players
 - 14.4 Key Player Strategies
 - 14.5 Company Profiles
 - 14.5.1 Linyi Yuanbo Chemical Co., Ltd.
 - 14.5.1.1 Company Overview
 - 14.5.1.2 Product Portfolio
 - 14.5.1.3 Demographic Reach and Achievements
 - 14.5.1.4 Certifications
 - 14.5.2 Angus Chemical Company
 - 14.5.2.1 Company Overview
 - 14.5.2.2 Product Portfolio
 - 14.5.2.3 Demographic Reach and Achievements
 - 14.5.2.4 Certifications
 - 14.5.3 Wujiang Bolin Industry Co., Ltd.
 - 14.5.3.1 Company Overview
 - 14.5.3.2 Product Portfolio
 - 14.5.3.3 Demographic Reach and Achievements
 - 14.5.3.4 Certifications
 - 14.5.4 Vizag Chemical International
 - 14.5.4.1 Company Overview

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14.5.4.2 Product Portfolio

14.5.4.3 Demographic Reach and Achievements

14.5.4.4 Certifications

14.5.5 Others

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