

Global N-Formylmorpholine (NFM) Market Growth 2026-2032

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Abstracts

The global N-Formylmorpholine (NFM) market size is predicted to grow from US\$ 58.11 million in 2025 to US\$ 81.82 million in 2032; it is expected to grow at a CAGR of 4.8% from 2026 to 2032.

In 2025, global N-Formylmorpholine (NFM) production reached approximately 18,000 tons, with a average price of 3,300 USD/Ton.

N-Formylmorpholine (NFM), CAS No. 4394-85-8, molecular formula C₅H₉NO₂ and molecular weight 115.13, is a morpholine-derived cyclic amide and specialty fine chemical produced through formylation of morpholine. It is generally supplied as a colorless to pale-yellow liquid or low-melting material and features high polarity, high boiling point, good thermal stability and strong selective solvency. Unlike commodity solvents, the key commercial value of NFM lies in its ability to selectively separate aromatics from non-aromatics, making it an important solvent for BTX aromatics extraction, extractive distillation, acid-gas removal, natural gas or syngas purification, and high-boiling reaction solvent applications in pharmaceuticals, agrochemicals, electronic chemicals and other fine chemical synthesis processes. NFM is positioned at the intersection of refining separation technology and specialty chemical solvents, with demand driven by aromatics production, refinery-petrochemical integration, gas treatment and the upgrading of high-purity specialty solvents.

The industrial production of N-Formylmorpholine (NFM) generally uses morpholine as the core feedstock and follows formic-acid, methyl-formate or other formylation routes. In the formic-acid route, morpholine reacts with formic acid, followed by dehydration, distillation and purification to obtain industrial or high-purity N-Formylmorpholine (NFM). In the methyl-formate route, morpholine reacts with methyl formate to produce N-

Formylmorpholine?NFM? with methanol as a by-product; this route offers a cleaner and less corrosive reaction system but requires stronger control over reaction conditions, distillation and by-product recovery. Commercial supply models can be divided into three categories: large integrated chemical companies supplying refining and gas-treatment customers through amines and solvent portfolios; regional fine chemical producers supplying industrial-grade N-Formylmorpholine?NFM? in drums, IBCs or bulk; and high-purity chemical suppliers serving R&D, pharmaceutical, agrochemical and electronic chemical customers with small-pack or high-purity grades. Estimated gross margins vary by grade and customer structure: standard industrial-grade N-Formylmorpholine?NFM? generally ranges from 15% to 25%; large-volume long-term supply or price-competitive products may fall below 20%; high-purity, low-moisture, low-color, customized-packaging and certified products may reach 25% to 40%; reagent-grade and special synthesis-grade products can show higher apparent margins, although their volume contribution is limited. The upstream chain includes morpholine, formic acid or methyl formate, methanol, carbon monoxide, catalysts, dehydrating agents and packaging materials; the midstream covers formylation, distillation, purification, quality control, hazardous chemical storage and logistics; and the downstream serves aromatics extraction units, integrated refining-petrochemical companies, natural gas and syngas purification, pharmaceutical and agrochemical intermediate synthesis, specialty solvent systems and fine chemical reaction processes.

Market development opportunities for N-Formylmorpholine?NFM? are primarily driven by the shift of refinery-petrochemical integration toward higher chemical yields and deeper aromatics value chains. BTX is a key building block for polyester, nylon, engineering plastics, solvents and many fine chemicals, and higher-purity benzene, toluene and xylene require more efficient separation technologies. With strong selectivity, thermal stability and recyclability in aromatics extractive distillation, N-Formylmorpholine?NFM? is positioned as a key solvent for aromatics-unit upgrading. As refining projects in China, India, the Middle East and Southeast Asia move toward higher chemical output, specialty oils and aromatics downstream processing, N-Formylmorpholine?NFM? demand is expected to evolve from simple solvent procurement toward integrated solutions combining solvent supply, process support and long-term reliability. At the same time, rising demand for natural gas, syngas, refinery gas and acid-gas purification creates additional growth space for N-Formylmorpholine?NFM? in gas-treatment applications. Producers with stable morpholine supply, purification know-how, low-moisture control, customer qualification capabilities and hazardous-chemical logistics will be better positioned to penetrate high-end refining and specialty chemical customers.

The major challenges for the N-Formylmorpholine (NFM) market come from concentrated demand, long customer qualification cycles, strong bargaining power from plant-based customers and upstream feedstock price volatility. Core N-Formylmorpholine (NFM) consumption is concentrated in aromatics extraction, gas treatment and specialty synthesis, so incremental demand is closely linked to refining project investment, aromatics-unit operating rates and gas-treatment project progress. When refining profitability is under pressure, aromatics products face temporary oversupply or project start-ups are delayed, N-Formylmorpholine (NFM) demand growth may fluctuate. In addition, N-Formylmorpholine (NFM) is both a hazardous chemical and a specialty fine chemical, requiring strict control of moisture, color, acidity, residual morpholine and heavy components. Customers focus on long-term stability, impurity impact, solvent loss and process compatibility, resulting in long supplier approval cycles. Tightening environmental, safety and energy-efficiency requirements also raises compliance costs for smaller producers. For low-end industrial suppliers, price competition and repackaging by traders may compress profitability; for high-end customer-oriented producers, risks are concentrated in quality consistency, batch traceability, continuous supply and international customer certification.

Future N-Formylmorpholine (NFM) demand is expected to show three parallel trends: stable upgrading of refinery-petrochemical plant demand, structural growth in gas treatment and expansion of high-purity demand in fine chemicals. Aromatics extraction will remain the most representative industrial application of N-Formylmorpholine (NFM). As refiners continue to improve aromatics recovery from light cycle oil, reformate, pyrolysis gasoline and coal-chemical by-product streams, N-Formylmorpholine (NFM) will benefit from high-purity BTX production, energy-saving revamps and improved solvent recycling efficiency. In gas treatment, stricter control of acid components such as CO₂ and H₂S in natural gas, syngas and refinery gas will support the extended use of N-Formylmorpholine (NFM) as a physical or selective solvent. In fine chemicals, rising demand for high-purity, low-moisture and low-metal-ion solvents in pharmaceuticals, agrochemicals, electronic chemicals and high-performance materials will push N-Formylmorpholine (NFM) beyond a traditional industrial solvent toward a functional process solvent. Overall, N-Formylmorpholine (NFM) is not a commodity chemical market but a niche, high-barrier specialty solvent segment. Its competitive focus will shift from price and capacity alone to purity control, reliable delivery, process compatibility, customer qualification and global supply capability.

LP Information, Inc. (LPI) ' newest research report, the "N-Formylmorpholine (NFM) Industry Forecast" looks at past sales and reviews total world N-Formylmorpholine (NFM) sales in 2025, providing a comprehensive analysis by region and market sector

of projected N-Formylmorpholine (NFM) sales for 2026 through 2032. With N-Formylmorpholine (NFM) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world N-Formylmorpholine (NFM) industry.

This Insight Report provides a comprehensive analysis of the global N-Formylmorpholine (NFM) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on N-Formylmorpholine (NFM) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global N-Formylmorpholine (NFM) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for N-Formylmorpholine (NFM) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global N-Formylmorpholine (NFM).

This report presents a comprehensive overview, market shares, and growth opportunities of N-Formylmorpholine (NFM) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

? 99.5%

? 99.5%

Segmentation by Grade:

Industrial Grade

Pharmaceutical Grade

Segmentation by Application:

Extracting Agent

Desulfurize

Pharmaceutical

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

BASF

Amines & Plasticizers Limited

Jiangsu Lianrun Chemical

Liyang Yutian Chemical

Southwest Institute of Chemical

Sterling Auxiliaries

Sichuan Jingshida Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global N-Formylmorpholine (NFM) market?

What factors are driving N-Formylmorpholine (NFM) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do N-Formylmorpholine (NFM) market opportunities vary by end market size?

How does N-Formylmorpholine (NFM) break out by Type, by Application?

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