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Mono-Ethanolamine Market Forecasts to 2030 – Global Analysis By Type (Liquid, Solid, Pure and Other Types), Production Process, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Mono-Ethanolamine Market is growing at a CAGR of 6.0% during the forecast period. Mono-Ethanolamine (MEA) is an organic compound composed of ethanol and an amine group, making it a primary amine. It appears as a colorless, viscous liquid with a mild ammonia-like odor. MEA is widely used in a variety of industrial applications, particularly in gas treatment for the removal of carbon dioxide (CO2) and hydrogen sulfide (H2S) from natural gas. It also serves as a key ingredient in the manufacture of detergents, emulsifiers, and corrosion inhibitors.

According to the Ministry of Economy, Trade, and Industry (METI), the size of Japan's cosmetics and personal care products market was over USD 35 billion in 2021, making it the world's third-largest country in the cosmetics and personal care and cosmetics industries after the United States and China.

Market Dynamics:

Driver:

Growing demand for natural gas

The growing demand for natural gas in the market is driven by its use in various industrial applications, particularly in natural gas processing and refining. MEA is a key compound for removing carbon dioxide (CO2) and hydrogen sulfide (H2S) from natural gas streams. As global energy consumption rises and environmental regulations

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tighten, the need for efficient gas treatment technologies boosts the demand for MEA, further increasing the reliance on natural gas for its production.

Restraint:

Stringent environmental regulations

Stringent environmental regulations can have a negative impact on the market by increasing production costs and limiting the availability of raw materials. As stricter environmental policies are implemented, companies face higher compliance costs and the need to adopt cleaner technologies, which could slow down production. Additionally, regulations targeting carbon emissions or chemical disposal practices may reduce the demand for MEA in certain industries, affecting market growth.

Opportunity:

Industrialization and economic growth

Industrialization and economic growth are key drivers in the market, as increased industrial activity demands efficient chemical processes for gas treatment, water treatment, and manufacturing. It is widely used for CO2 removal, making it crucial in industries like oil and gas, power generation, and chemicals. Economic growth accelerates infrastructure development, driving demand for energy and petrochemical products. As emerging economies industrialize, the need in various sectors continues to grow, fostering market expansion.

Threat:

Volatility in raw material prices

Volatility in raw material prices can significantly impact the market by creating uncertainties in production costs. Fluctuations in the prices of key inputs like ethanolamines, natural gas, and other chemicals can lead to price instability, making it difficult for manufacturers to forecast costs and maintain profitability. This volatility may result in higher production costs, reduced margins, and potential supply chain disruptions, affecting the overall stability of the market.

Covid-19 Impact:

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The COVID-19 pandemic negatively impacted the market by disrupting global supply chains and reducing industrial activity. Lockdowns and restrictions led to decreased demand in key sectors like oil and gas, chemicals, and manufacturing. Production slowdowns and factory shutdowns further hindered availability. However, as industries adapt and recovery progresses, demand for the market is expected to rise, especially in sectors focused on environmental sustainability and energy efficiency.

The ammonia-based segment is expected to be the largest during the forecast period

The ammonia-based segment is anticipated to account for the largest market share during the projection period. It is a key compound in carbon capture and amine scrubbing processes, helps remove CO? and H?S from natural gas and refinery streams. Rising environmental concerns, coupled with increasing demand for clean energy solutions, are driving market growth. Additionally, it is widely used in pharmaceuticals and cosmetics, further expanding its applications.

The chemical segment is expected to have the highest CAGR during the forecast period

The chemical segment is expected to have the highest CAGR during the extrapolated period. It acts as an effective absorbent for CO? and H?S in industrial processes, playing a key role in environmental sustainability. It is also used in the manufacturing of surfactants, emulsifiers, and corrosion inhibitors, thus expanding its demand across various sectors such as agriculture, personal care, and industrial cleaning.

Region with largest share:

North America region is anticipated to account for the largest market share during the forecast period driven by demand from industries such as natural gas processing. The region’s focus on environmental sustainability, particularly in carbon capture technologies, is boosting its use in gas treatment applications. Additionally, the growing demand in the production of personal care products, detergents, and pharmaceuticals further strengthens its market presence in the region.

Region with highest CAGR:

Asia Pacific is expected to register the highest CAGR growth rate over the forecast period. Rapid industrialization and urbanization in countries have led to increased demand in various manufacturing processes. The agriculture sector, which requires chemical agents like herbicides, is another important contributor to the market,

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especially as agricultural practices modernize in the region. Additionally, regulatory policies promoting environmental sustainability can influence the demand in specific applications.

Key players in the market

Some of the key players in Mono-Ethanolamine market include BASF SE, Dow Chemical Company, Huntsman Corporation, AkzoNobel N.V., Eastman Chemical Company, Solvay S.A., SABIC, LyondellBasell Industries, Reliance Industries Limited, Mitsui Chemicals, Inc., HCL Group, Tosoh Corporation, Hindustan Organic Chemicals Ltd., Vishnu Chemicals Ltd. and Chemsol.

Key Developments:

In September 2024, BASF has opened a new production plant for alkyl ethanolamines, including dimethyl ethanolamine (DMEOA) and methyl diethanolamine (MDEOA), at its Verbund site in Antwerp, Belgium. This investment increases the company's global annual production capacity by nearly 30% to over 140,000 tons/year.

In May 2024, INEOS Oxide and LyondellBasell (LYB) have today completed the sale of LYB’s Ethylene Oxide & Derivatives (EO&D) business and associated production facilities located in Bayport, Texas to INEOS.

Types Covered:

- Liquid
- Solid
- Pure
- Other Types

Production Process Covered:

- Ammonia-Based
- Ethanol-Based

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Applications Covered:

- Detergents & Cleaners
- Gas Treatment
- Plasticizers
- Water Treatment
- Other Applications

End Users Covered:

- Paints & Coatings
- Personal Care & Cosmetics
- Chemical
- Oil & Gas
- Agriculture
- Pharmaceuticals
- Other End Users

Regions Covered:

- North America
  - US
  - Canada

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- Mexico

Europe

- Germany
- UK
- Italy
- France
- Spain
- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil

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Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

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Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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