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Amines Market ? Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Ethanol Amines, Fatty Amines, Alkyl Amines, Others), By Application (Crop Protection, Surfactants, Water Treatment, Personal Care, Gas Treatment, Others), By Region & Competition, 2021-2031F

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Abstracts

The Global Amines Market is anticipated to expand from USD 19.27 Billion in 2025 to USD 24.79 Billion by 2031, reflecting a CAGR of 4.29%. Amines, which are versatile organic compounds formed by substituting hydrogen atoms in ammonia with alkyl or aryl groups, function as vital intermediates in the production of agrochemicals, personal care items, and pharmaceuticals. Growth in this sector is primarily fueled by the increasing need for crop protection agents to ensure global food security and the rising demand for water treatment chemicals in industrial settings. These drivers, unlike emerging trends such as the move toward bio-based sourcing, arise from the fundamental necessity of amine chemistries in synthesizing effective chelating agents, surfactants, and herbicides for large-scale application.

Despite these favorable demand indicators, the market confronts significant obstacles related to strict environmental regulations regarding the handling and toxicity of hazardous chemical intermediates, which can elevate compliance expenses and limit production capabilities. To provide context on the industrial recovery underpinning this sector, the American Chemistry Council reported that global chemical production volumes were expected to increase by 3.5% in 2024. This projection suggests a strengthening foundation for the manufacturing of organic intermediates, even amidst broader economic difficulties.

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Market Driver

The escalating demand for agrochemicals to improve crop yields and food security acts as a primary driver for the global amines market, requiring substantial production of key intermediates for pesticides and herbicides. As agricultural sectors aim to maximize output from finite arable land, amines are frequently used to synthesize active ingredients such as 2,4-D and glyphosate, which need chemical stabilization to perform effectively across various environmental conditions. This connection between food security strategies and chemical consumption is underscored by recent production figures; according to the Food and Agriculture Organization (FAO) in its July 2024 'Cereal Supply and Demand Brief', global cereal production for 2024 was forecast to hit a record 2,854 million tonnes, highlighting the reliance on amine-based solutions to maintain such high yields.

Furthermore, the expansion of water treatment infrastructure, propelled by stricter environmental regulations, accelerates market momentum as municipalities and industries utilize amine chemistries for contaminant removal and corrosion inhibition. This increase is compelled by the urgent need to bridge global gaps in potable water access and sanitation through advanced treatment processes. According to the UNESCO 'United Nations World Water Development Report 2024' published in March 2024, approximately 2.2 billion people worldwide still lack safely managed drinking water, driving significant investments in facilities dependent on these organic compounds. Supporting this trajectory, Cefic reported in October 2024 that global chemical production volumes rose by 6.1% during the first seven months of 2024 compared to the previous year, indicating a robust recovery in sectors essential for amine applications.

Market Challenge

Stringent environmental regulations governing the toxicity and handling of hazardous chemical intermediates present a substantial barrier to the expansion of the global amines market. These regulatory frameworks necessitate rigorous safety protocols and complex waste management systems, which significantly inflate operational costs for manufacturers. By forcing companies to allocate substantial financial resources toward compliance and emission control rather than capacity upgrades, these mandates effectively reduce the capital available for market growth. Furthermore, the extensive testing required for toxicity assessments often delays the approval processes for new amine derivatives, hindering the introduction of specialized products needed for diverse industrial applications.

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The impact of such regulatory and operational pressures is particularly evident in regions with established and rigorous chemical safety standards. According to the European Chemical Industry Council, in 2024, chemical production volumes in the European Union were projected to grow by only 1.0 percent, a figure that highlights the constrained industrial output resulting from ongoing structural and regulatory challenges. This slow pace of recovery in major manufacturing hubs demonstrates how high compliance obligations can dampen production agility and restrict the overall trajectory of the market.

Market Trends

Industries are increasingly integrating amines into Advanced Carbon Capture, Utilization, and Storage (CCUS) strategies to decarbonize heavy manufacturing. This trend centers on deploying amine solvents to scrub CO2 from post-combustion flue gases, positioning these chemicals as critical enablers for net-zero transitions. The momentum is visible in the rapid accumulation of large-scale commercial projects that rely on amine-based absorption. According to the Global CCS Institute, October 2024, in the 'Global Status of CCS Report 2024', the total number of carbon capture facilities in the global development pipeline surged by 60% to reach 628 projects, highlighting the substantial industrial scaling of gas treatment technologies.

Simultaneously, the Shift Toward Bio-Based and Renewable Amine Production is reshaping the supply chain as manufacturers reduce reliance on fossil-fuel feedstocks. This transition involves synthesizing amines from biomass sources to lower carbon footprints, directly addressing "green chemistry" demands from the personal care and coatings sectors. Chemical producers are validating this shift through substantial infrastructure commitments. According to Evonik, November 2024, in the press release 'Evonik breaks ground on specialty amine production in Nanjing', the company initiated a double-digit million euro investment to expand its capacity for sustainable specialty amines, ensuring a steady supply of eco-friendly intermediates for the Asian market.

Key Market Players

Arkema S.A.

Akzo Nobel N.V.

BASF SE

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SABIC

The Dow Chemical Company

Huntsman Corporation

Mitsubishi Gas Chemical Company

Taminco Corporation

Celanese Corporation

Solvay S.A.

Report Scope

In this report, the Global Amines Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Amines Market, By Product

Ethanol Amines

Fatty Amines

Alkyl Amines

Others

Amines Market, By Application

Crop Protection

Surfactants

Water Treatment

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South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Amines Market.

Available Customizations:

Global Amines Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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