

Global STAM (Stearamidopropyl Dimethylamine) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global STAM (Stearamidopropyl Dimethylamine) market size was valued at US\$ 260 million in 2025 and is forecast to a readjusted size of US\$ 367 million by 2032 with a CAGR of 5.1% during review period.

Stearamidopropyl dimethylamine is a long-chain fatty amide organic compound, produced by the amidation reaction of octadecanoic acid (i.e., stearic acid) and dimethylaminopropylamine (DMAPA). Its chemical structure contains both a hydrophobic octadecanoyl group and a hydrophilic tertiary amine group, exhibiting excellent surface activity and conditioning properties. This substance is widely used in personal care products, especially in conditioners, shampoos, and hair masks, serving as a conditioning agent, antistatic agent, and emulsion stabilizer. It can form cationic salts in acidic environments, thus imparting smoothness, manageability, and softness to hair. Furthermore, stearamidopropyl dimethylamine has low irritation and good biodegradability, making it a mild and environmentally friendly functional amine raw material, commonly used in high-quality hair care formulations and green surfactant systems. The downstream applications of stearamidopropyl dimethylamine are mainly concentrated in the personal care industry, particularly in hair care products, where it is a key conditioning ingredient in various shampoo and conditioner formulations. Its downstream products include conditioners, hair masks, 2-in-1 shampoos, color-repair products, anti-static sprays, and skin lotions, with conditioners and hair masks having the largest demand. Under acidic conditions, this compound can form quaternary ammonium salts with fatty acids, imparting smoothness, anti-static properties, and easy-to-manage characteristics to hair, thus significantly improving the user experience. In addition to daily chemicals, octadecanopropyl dimethylamine is also used in

formulations of textile softeners, emulsifiers, preservatives, and industrial surfactants to improve the softness, dispersibility, and stability of products. Therefore, its downstream applications span multiple fields including daily chemicals, light industry, and fine chemicals. Octadecanopropyl dimethylamine has a gross profit margin of 39% and a production capacity of 72,860 tons in 2024. Global production of octadecanopropyl dimethylamine reached 55,104 tons in 2024, with an average selling price of US\$4.41 per kilogram.

STAM (stearamide propyl dimethylamine), a classic cationic surfactant and conditioning agent, plays an indispensable role in personal care, especially in hair care products. Its molecular structure cleverly combines lipophilic long-chain alkyl groups (derived from stearic acid) with hydrophilic quaternary ammonium salt groups. This amphiphilic property allows it to efficiently adsorb onto negatively charged hair and skin surfaces, thus exerting excellent conditioning effects. The core idea is that STAM is one of the key ingredients for achieving instant smoothness, anti-static properties, and improved dry and wet combability. It effectively neutralizes static electricity and reduces friction by forming a lightweight film on the hair surface, leaving hair feeling smooth and easy to comb immediately after use.

However, a true understanding of STAM requires going beyond its basic conditioning properties. Its unique chemical properties dictate its application wisdom in formulation. STAM itself is a weakly cationic compound. After combining with acidic substances (such as citric acid and lactic acid) and undergoing a neutralization reaction, it "generates" quaternary ammonium salts "in situ." This process not only significantly enhances its adsorption capacity and conditioning effect but also improves the stability of the formulation system. Therefore, it is often used as an intermediate in the preparation of high-end conditioning agents (such as Silicone Quats), perfectly combining the lubricating properties of silicone oil with the long-lasting adsorption properties of cationic compounds to deliver a velvety, luxurious feel.

Despite its superior performance, STAM also faces scrutiny from market trends. With the rise of the concepts of "silicone-free" and "pure beauty," some formulators are seeking gentler or naturally derived alternatives. However, STAM's advantages lie in its high efficacy, affordability, and technological maturity, making it difficult to completely replace in terms of cost-effectiveness. It is particularly suitable for use in repairing and nourishing conditioners, hair masks, and products targeting damaged and dry hair, significantly improving the rough feel caused by damaged hair cuticles.

In conclusion, STAM is by no means an outdated ingredient, but rather a market-

proven, highly effective, and versatile conditioning cornerstone. Its value lies not only in the immediate smoothness it provides but also in the flexible modification space it offers formulators. In the pursuit of ultimate conditioning effects and cost control, STAM remains a powerful and reliable option, but its application also needs to fully consider the preferences of target consumers and the overall compatibility of the formula.

This report is a detailed and comprehensive analysis for global STAM (Stearamidopropyl Dimethylamine) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global STAM (Stearamidopropyl Dimethylamine) market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global STAM (Stearamidopropyl Dimethylamine) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global STAM (Stearamidopropyl Dimethylamine) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global STAM (Stearamidopropyl Dimethylamine) market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for STAM (Stearamidopropyl Dimethylamine)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global STAM (Stearamidopropyl Dimethylamine) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Evonik, Kao Chemicals, Clariant, Croda, THOR, Innospec, Miwon Commercial, Sino Lion, Kiyu New Material, Zhonghai Chemical, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

STAM (Stearamidopropyl Dimethylamine) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Solid Type

Liquid Type

Market segment by Source

Bio-Based

Synthetic

Market segment by Purity

Cosmetic Grade

Industrial Grade

Market segment by Application

Personal Care Products Industry

Textile Chemicals Industry

Others

Major players covered

Evonik

Kao Chemicals

Clariant

Croda

THOR

Innospec

Miwon Commercial

Sino Lion

Kiyu New Material

Zhonghai Chemical

Hony New Material

Unilong Industry

Soyoung Technology Materials

Deyi Chemical

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe STAM (Stearamidopropyl Dimethylamine) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of STAM (Stearamidopropyl Dimethylamine), with price, sales quantity, revenue, and global market share of STAM (Stearamidopropyl Dimethylamine) from 2021 to 2026.

Chapter 3, the STAM (Stearamidopropyl Dimethylamine) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the STAM (Stearamidopropyl Dimethylamine) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and STAM (Stearamidopropyl Dimethylamine) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of STAM (Stearamidopropyl Dimethylamine).

Chapter 14 and 15, to describe STAM (Stearamidopropyl Dimethylamine) sales channel, distributors, customers, research findings and conclusion.

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