

# **Erucamide Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2019-2029 Segmented By Product Type (High Purity Erucamide, General Erucamide), By Application (Plastics Industry, Ink & Paint Industry, Rubber Industry, Food and Beverages Industry, Others), By Region and Competition**

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## **Abstracts**

Global Erucamide Market has valued at USD 265.44 Million in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 3.57% through 2029. The growth of the global erucamide market can be attributed to its rising use in the food packaging industry. As a slip agent, erucamide helps reduce friction between polymer surfaces, enhancing the efficiency of the production process and ensuring high-quality final products. Additionally, its anti-static properties are beneficial in reducing static charges in packaging materials, preventing dust accumulation, and ensuring the cleanliness of the products. Furthermore, the increasing demand for high-quality printing paper and textiles is another factor driving the erucamide market. In these industries, erucamide serves as a lubricant, reducing surface friction and enabling smoother processing, resulting in superior end products. Moreover, the burgeoning personal care industry is contributing to the market growth of erucamide. The emollient and thickening properties of erucamide make it a valuable ingredient in personal care products such as cosmetics and hair conditioners.

With advancements in technology and increasing research and development activities, the applications of erucamide are expected to expand further. One promising opportunity for market growth is the potential use of erucamide in the production of bio-plastics, aligning with the growing demand for sustainable and eco-friendly materials.

However, the market also faces challenges. Fluctuating raw material prices and stringent environmental regulations may pose obstacles to market growth. Despite these challenges, the overall outlook for the global erucamide market remains positive, driven by the increasing demand across various industries and the continuous exploration of new applications.

## Key Market Drivers

### Growing Demand of Erucamide from Food & Beverage Industry

The food packaging industry is poised to play a pivotal role in propelling the global erucamide market. With the increasing demand for erucamide in plastic films specifically designed for food packaging, its significance has skyrocketed. Acting as a slip agent, erucamide effectively reduces friction between polymer surfaces, resulting in improved production efficiency and enhanced product quality.

Moreover, erucamide's anti-static properties have become invaluable within the food packaging industry. These properties serve to mitigate static charges in packaging materials, preventing the accumulation of dust, and ensuring the utmost cleanliness of the packaged products.

Furthermore, the market's growth is further fueled by the rising demand for erucamide in food applications due to its exceptional antioxidant properties. These remarkable properties have made erucamide an ideal additive for food packaging, enhancing the shelf-life of products and preserving their freshness.

In addition, the potential utilization of erucamide in the production of bio-plastics presents a promising opportunity for future market expansion. With the food and beverage industry increasingly focused on adopting sustainable packaging solutions, the demand for bio-plastics is expected to surge, thereby further boosting the erucamide market.

In conclusion, the escalating demand for erucamide from the food and beverage industry plays a significant role in driving the growth of the global erucamide market. Its multifaceted applications and promising growth prospects make erucamide an indispensable component within this industry, underscoring its importance and potential impact.

## Growing Demand of Erucamide from Polymer Industry

The polymer industry has been experiencing a noticeable surge in the demand for erucamide, thanks to its exceptional properties. As a slip agent, it plays a crucial role in reducing friction between polymer surfaces, thereby enhancing the efficiency of the production process, and elevating the quality of the final product.

Moreover, erucamide's anti-static properties hold immense value in the polymer industry. These properties aid in minimizing static charges in plastic materials, effectively preventing dust accumulation, and ensuring the utmost cleanliness of the products.

Looking ahead, the global erucamide market is projected to witness substantial growth in the forthcoming years, primarily propelled by the escalating demand from the polymer industry. With continuous advancements in technology and a surge in research and development activities, the applications of erucamide in the polymer industry are expected to expand even further.

In addition to its existing applications, erucamide holds immense potential for usage in the production of bio-plastics, presenting a promising opportunity for future market growth. As the world shifts towards more sustainable solutions, the demand for bio-plastics is anticipated to rise significantly, consequently boosting the erucamide market. This opens up new avenues and possibilities for erucamide's utilization, reinforcing its position as a versatile and sought-after compound in the polymer industry.

## Key Market Challenges

### Availability and Price Volatility of Raw Materials

Raw materials often experience market volatility due to various factors, such as supply disruptions, pent-up demand, or significant peaks and troughs in the market. This volatility can have a significant impact on the price and availability of erucamide, a compound derived from erucic acid, which in turn is sourced from rapeseed oil.

Any fluctuation in the availability or price of rapeseed oil directly affects the production cost of erucamide, making it susceptible to market fluctuations.

Multiple factors contribute to the volatility of raw material prices. Geopolitical instability, increased demand for certain materials, and limited availability can all significantly

impact the cost of raw materials.

Moreover, natural disasters, political instability, and currency value fluctuations are additional factors that contribute to the volatility of raw material prices. These factors can disrupt supply chains, leading to reduced availability and increased prices of raw materials.

Considering these complexities, it becomes crucial for industries relying on erucamide and other raw materials to closely monitor market trends and effectively manage the impact of these fluctuations on their operations.

## Key Market Trends

### Expanding Applications of Erucamide in Printing and Coating

In the printing and coating industry, erucamide plays a crucial role due to its unique properties. It serves as an excellent slip agent, reducing friction between surfaces, which is particularly useful in printing processes. By improving the efficiency of these processes and the quality of the final product, erucamide is increasingly becoming a preferred choice in the industry.

Furthermore, erucamide's anti-static properties are highly beneficial in printing and coating applications. These properties help reduce static charges in materials, preventing dust accumulation and ensuring the cleanliness of the printed or coated products. This not only enhances the visual appeal of the final output but also contributes to the longevity of the printed or coated materials.

The global erucamide market is witnessing significant growth, largely driven by its expanding applications in the printing and coating industry. As technology advances and research and development activities increase, the use of erucamide in this industry is expected to further expand. The versatility of erucamide makes it suitable for various printing and coating methods, including flexographic printing, gravure printing, and screen printing.

In addition to its current uses, the potential application of erucamide in the production of bio-inks for 3D printing presents an exciting opportunity for future market growth. With the rapid advancement of 3D printing technology, the demand for bio-inks is expected to rise, thereby boosting the erucamide market. The unique properties of erucamide, such as its compatibility with different types of polymers and its ability to provide excellent

adhesion, make it a promising ingredient for bio-inks used in 3D printing.

Overall, erucamide's exceptional slip and anti-static properties, along with its expanding applications in the printing and coating industry, position it as a key component for enhancing performance and quality. As the demand for high-quality printed and coated products continues to rise, erucamide is expected to play an increasingly vital role in meeting these requirements.

## Segmental Insights

### Product Type Insights

Based on the category of product type, the high purity erucamide segment emerged as the dominant player in the global market for erucamide in 2023. High purity erucamide possesses exceptional properties that make it a preferred choice over general erucamide. It serves as an excellent slip agent, reducing friction between surfaces, which is particularly useful in various industrial processes. Moreover, its anti-static properties help reduce static charges in materials, preventing dust accumulation and enhancing the cleanliness of products.

In addition to its exceptional slip and anti-static properties, high purity erucamide offers other valuable advantages. Its high thermal stability makes it suitable for applications requiring elevated temperatures, ensuring consistent performance even in demanding conditions. Furthermore, its compatibility with a wide range of materials makes it versatile for use in various industries.

### Application Insights

The plastics industry segment is projected to experience rapid growth during the forecast period. The growth of this application can be attributed to the increasing demand for various plastic products, such as polypropylene, polystyrene, Nylon 6, PVC, and more. This surge in demand is mainly driven by factors like the growing population and rising disposable income, which have led to a significant increase in the consumption of plastic products. As a result, the demand for this application is expected to continue growing over the forecast period.

Additionally, the ink and paint industry is another major end-use segment closely following plastics. This industry has witnessed a rising trend in the use of printing ink made from synthetic rubber or fatty acid esters, like Erucamide (Diacetyl Ester Of

Polypropylene), due to its excellent adhesion properties with a wide range of substrates, including paper, metals & alloys (aluminum), Glass Fiber Reinforced Plastics (cotton), wood, and more.

## Regional Insights

Asia Pacific emerged as the dominant player in the Global Erucamide Market in 2023, holding the largest market share in terms of both value and volume. The Asia Pacific region is currently experiencing an extraordinary surge in industrial growth, which is directly impacting the demand for erucamide. With its favorable business environment, the region has become a magnet for foreign investments and is witnessing a booming manufacturing sector. This can be attributed to the availability of low-cost labor and affordable land, making it an attractive destination for industries seeking to expand their operations. As a result of this industrial expansion, there has been a significant increase in the demand for erucamide, particularly in sectors such as plastics, textiles, and printing and coatings.

Moreover, the growing food packaging industry in the Asia Pacific region is another key factor driving the demand for erucamide. This versatile compound is widely used in the food packaging sector due to its exceptional anti-static and slip agent properties. As the demand for packaged food continues to rise in this region, the need for erucamide as a crucial component in ensuring the quality and safety of food packaging materials is also increasing. The continuous expansion of the food packaging industry in the Asia Pacific region further amplifies the demand for erucamide, making it an indispensable ingredient for manufacturers in this sector.

## Key Market Players

Croda Sipo Sichuan Co Ltd

Sichuan Tianyu Oleochemical Co Ltd

Nippon Fine Chemical Co., Ltd.

Jiangxi Weike Axunge Chemistry Co., Ltd

Alinda Velco SA

Belike Chemical Co Ltd

Shanghai Huayi Plastics Auxiliary Cooperation

SCM Industrial Chemicals Co. Ltd.

PCC Chemax

Struktol Co of America LLC

#### Report Scope:

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

Erucamide Market, By Product Type:

High Purity Erucamide

General Erucamide

Erucamide Market, By Application:

Plastics Industry

Ink & Pain Industry

Rubber Industry

Food and Beverages Industry

Others

Erucamide Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

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 Erucamide Market.

Available Customizations:

Global Erucamide Market report with the given market data, Tech Sci 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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