

Crotonic Acid Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application

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Abstracts

Overview of the Crotonic Acid Market

Crotonic acid, also known as 2-butenic acid, is a colorless organic compound that is part of the unsaturated carboxylic acid family. Its unique chemical properties make it a versatile compound in various industrial applications. The crotonic acid market is expected to witness substantial growth from 2025 to 2030, driven by its increasing demand in sectors like coatings, adhesive resins, and pharmaceuticals. Factors such as the rising focus on sustainable and eco-friendly products can further propel the use of crotonic acid as an alternative to more harmful chemicals.

Market Size and Trends

As of 2025, the global crotonic acid market is estimated to be valued at approximately USD 180 million and is projected to grow at a compound annual growth rate (CAGR) of around 5.5% from 2025 to 2030. The increasing application of crotonic acid in manufacturing processes and the growing need for high-performance materials are driving factors for market expansion.

Market Share & Trends Analysis

By Product Type

The segmentation of the crotonic acid market by product type showcases a variety of applications. The main product types include:

Industrial-grade Crotonic Acid

Pharmaceutical-grade Crotonic Acid

Industrial-grade crotonic acid dominates the market, accounting for approximately 70%

of the overall market share due to its extensive use in coatings and adhesives.

By Key Players

The market is characterized by the presence of several key players, including:

Shandong Hognda - A leading manufacturer engaged in producing high-quality crotonic acid.

Weylchem - Known for its innovative approaches to chemical production.

Tianjin Jinhui Pharmaceutical - A major supplier in the pharmaceutical-grade crotonic acid segment.

Henan Steroids Bio-technology - Focused on biochemical applications of crotonic acid.

Zhengzhou Tuozhixiang - Specializes in the production and supply chain of industrial chemicals.

Zhejiang Wild Wind Pharmaceutical - Engages in alternative applications of crotonic acid in healthcare.

By Process

The production of crotonic acid primarily involves the following processes:

Direct Dehydration of 4-Hydroxybutyric Acid

Dehydrogenation of Butyric Acid

These processes are continually optimized to achieve better yields and lower production costs, further supporting market growth.

By Application

The crotonic acid market finds applications across various sectors:

Coatings - Estimated to contribute around 35% of the market share due to its demand for protective and aesthetic coatings.

Adhesive Resins - Account for approximately 30% of the market, driven by the construction and automotive industries.

Plasticizers - Comprise about 15% of the market, utilized in producing flexible PVC compounds.

Fungicides - Hold roughly 10% of the market share, with growing applications in agricultural products.

Pharmaceutical - Making up around 7% of the market, driven by the demand for advanced drug formulations.

Others - Covering the remaining 3%, which includes specialty chemical applications.

By End-Use

The end-use sectors for crotonic acid span a wide range:

Aerospace
Automotive
Construction
Healthcare
Consumer Goods

By Region

Region-wise, the crotonic acid market can be divided into:

North America - Expected to maintain a significant share, estimated at 30% due to robust automotive and infrastructure growth.

Europe - Following closely with a share of approximately 28% fueled by stringent regulations regarding chemical safety and environmental protection.

Asia-Pacific - Projected to witness the fastest growth rate of around 6% CAGR, owing to rapid industrialization and increased demand in emerging economies.

Latin America - Estimated to contribute around 8% share attributed to slow-paced but steady growth in industrial applications.

Middle East & Africa - Shares approximately 4%, driven by developments in the petrochemical sector.

Market News and Policies

Recent governmental policies promoting sustainable chemical production are expected to shape the crotonic acid market positively. Additionally, several companies are focusing on mergers and acquisitions to strengthen their market position. For example, in early 2025, Shandong Hognda announced a partnership with Zhejiang Wild Wind Pharmaceutical, aiming to create innovative compounds that incorporate crotonic acid for the pharmaceutical industry.

Furthermore, regulatory changes across various countries towards enforcing stricter environmental standards for manufacturers are likely to bolster the market, encouraging the use of crotonic acid as a safer alternative due to its lower toxicity compared to traditional solvents.

Segment Forecasts (2025-2030)

The crotonic acid market is anticipated to expand significantly during the forecast period. The coatings sector is projected to witness a compound annual growth rate (CAGR) of over 5.8%, driven by innovations in eco-friendly coatings.

The adhesive and sealants application segment, along with pharmaceuticals, is expected to grow at a rate of approximately 6%, boosted by increasing industrial activities and healthcare advancements.

Overall, crotonic acid is likely to experience a paradigm shift, with a balanced growth trajectory thanks to technological advancements and eco-conscious consumer preferences. Industry stakeholders should prepare to adapt to the evolving dynamics to leverage the forthcoming opportunities.

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