

# Carboxylic Acid Market Size Worth USD 12.9 Billion by 2035, Driven by Bio-based Production and Polymer Applications

*Carboxylic Acid Market Set for Expansion Amid Shift Toward Green Chemistry and Specialty Chemicals*

WILMINGTON, DE, UNITED STATES, August 29, 2025 /EINPresswire.com/ -- The [carboxylic acid market](#) is driven by its wide range of applications. Acetic acid, one of the most consumed carboxylic acids, serves as a critical raw material in vinyl acetate monomer (VAM), terephthalic acid, and acetic anhydride production. Butyric acid, formic acid, propionic acid, and benzoic acid are extensively used in animal feed, preservatives, rubber manufacturing, and food additives. Moreover, dicarboxylic acids such as adipic acid and phthalic acid play a vital role in the polymer and plasticizer industry.

The global carboxylic acid market is projected to reach USD 12.9 billion by 2035, growing at a steady CAGR of 6.3% from 2025 to 2035. Growth is being fueled by rising applications in pharmaceuticals, food & beverages, polymers, agriculture, and personal care industries. Increasing demand for acetic, propionic, and benzoic acids in preservatives, coatings, and drug formulations, coupled with expanding use of dicarboxylic acids in high-performance polymers, is driving market expansion.

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The growing emphasis on sustainable agriculture, high demand for preservatives, and the expansion of the global pharmaceutical sector are strengthening the outlook for the carboxylic acid market. Additionally, innovations in fermentation-based bio-production are helping reduce reliance on petrochemical feedstock, aligning with global sustainability goals.

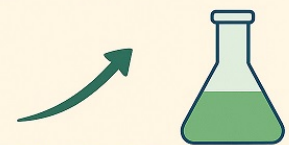
Market Size and Growth

According to industry analysts, the carboxylic acid market is expected to expand at a steady CAGR over the forecast period. Rising demand from APAC economies such as China, India, and

## Carboxylic Acid Market

The global industry valued at **US\$ 6.6 Bn** in 2024

It is estimated to grow at a **CAGR of 6.3%** from 2025 to 2035



reach **US\$ 12.9 Bn** by the end of 2035

Carboxylic Acid Market



The carboxylic acid industry is expected to grow at a CAGR of 6.3% from 2025 to 2035”

*By Transparency Market Research*

Japan is likely to remain a key growth driver due to rapid industrialization, urbanization, and growing chemical manufacturing activities.

North America and Europe will also account for significant shares, supported by demand in pharmaceuticals, packaged food, and bio-based polymers. Regulatory focus on sustainable production methods, coupled with consumer preference for eco-friendly products, will further

boost growth prospects.

## Key Market Drivers

### Rising Use in Pharmaceuticals

Carboxylic acids are essential intermediates in drug formulations and active pharmaceutical ingredients (APIs). Acids such as salicylic acid and valeric acid are widely used in the development of analgesics, anti-inflammatory drugs, and central nervous system drugs. The growing pharmaceutical sector, particularly in emerging markets, is accelerating demand.

### Expanding Food & Beverage Industry

Propionic acid, formic acid, and benzoic acid are used as preservatives to extend the shelf life of packaged food. Increasing urbanization and consumer reliance on packaged and ready-to-eat food is driving market demand.

### Polymer & Coating Applications

Dicarboxylic acids, especially adipic acid and phthalic acid, are key inputs in nylon and polyester production. Growing demand for high-performance polymers, coatings, and adhesives is creating opportunities for market expansion.

### Sustainable Agriculture

Carboxylic acids play a role in animal feed additives, silage preservatives, and crop protection. Rising focus on sustainable farming practices and food security is boosting demand.

### Shift Toward Bio-based Production

Environmental regulations are encouraging companies to invest in renewable feedstock-based carboxylic acid production. Fermentation and biotechnological advancements are opening new avenues for cost-effective and sustainable manufacturing.

## Market Challenges

- Fluctuating Raw Material Prices – Dependence on petrochemical feedstocks exposes the market to volatility in crude oil prices.
- Environmental Concerns – Conventional manufacturing methods generate greenhouse gases, prompting regulatory scrutiny.
- Intense Competition – Market fragmentation and competition from substitutes such as inorganic acids may restrict pricing power.

## Key Trends

- Bio-based Carboxylic Acids – Growing adoption of green chemistry and sustainable materials.
- Rising Demand for Specialty Acids – High-value acids like valeric acid and sebacic acid gaining traction in niche applications.
- Focus on High-Performance Materials – Increased use of dicarboxylic acids in engineering plastics, automotive, and aerospace.
- Digitalization in Manufacturing – Integration of AI and IoT in chemical manufacturing plants to optimize production.

## Regional Insights

Asia Pacific (APAC): Dominates the global market due to robust chemical, textile, and food processing industries in China and India. Favorable government policies and growing pharmaceutical investments fuel growth.

North America: Strong demand from pharmaceuticals, agriculture, and packaging sectors. Sustainability regulations encourage bio-based production.

Europe: Presence of leading specialty chemical manufacturers, coupled with demand for high-quality polymers and preservatives.

Latin America & Middle East/Africa: Emerging as growing markets due to agricultural expansion and rising investments in chemical industries.

## Recent Developments

BASF SE expanded its acetic acid capacity in China to meet growing regional demand.

Eastman Chemical announced advancements in sustainable carboxylic acid derivatives for specialty polymers.

Perstorp Holding launched a new range of bio-based acids for animal feed and coatings.

Evonik is investing in biotechnology-based processes for producing specialty acids.

## Future Outlook

The future of the carboxylic acid market is strongly aligned with sustainability, innovation, and growing end-user demand. Increasing investment in bio-based fermentation, coupled with rising use of carboxylic acids in next-generation polymers, sustainable packaging, and pharmaceutical R&D, will create strong growth opportunities.

Market players focusing on eco-friendly production processes, strategic partnerships, and new application development are likely to capture significant market share in the coming years.

## Key Study Points

Widespread applications across pharmaceuticals, polymers, food, and agriculture.

Growing demand for acetic, propionic, formic, and dicarboxylic acids.

Bio-based production to drive next phase of market growth.

Strong presence in APAC, with expanding opportunities in emerging markets.

Competitive landscape shaped by innovation and sustainability initiatives.

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