

Malonic Acid Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Application (Flavor Enhancer, Additive, pH Controller, Precursor, Others), By End Use Industry (Food & Beverage, Pharmaceutical, Agriculture, Plastics, Paints & Coatings, Others), By Region and Competition, 2020-2030F

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Report description:

Market Overview

Global Malonic Acid Market was valued at USD 97.45 Million in 2024 and is expected to reach USD 122.67 Million by 2030 with a CAGR of 4.11% during the forecast period. The global malonic acid market is experiencing steady growth, driven by its increasing demand across various end-use industries such as pharmaceuticals, agrochemicals, and specialty chemicals. Malonic acid, a versatile dicarboxylic acid, is widely utilized as a precursor in the synthesis of barbiturates, vitamins B1 and B6, and other bioactive compounds. The market is benefiting from rising pharmaceutical production and the growing emphasis on sustainable and bio-based chemical intermediates. Additionally, advancements in manufacturing technologies and the shift towards green chemistry have further fueled market expansion. However, challenges such as fluctuating raw material prices and limited large-scale commercial production may hinder rapid growth. Asia-Pacific remains the dominant regional market, supported by strong industrial infrastructure and growing demand from emerging economies like China and India, while North America and Europe continue to show steady consumption due to mature chemical and pharmaceutical sectors.

Key Market Drivers

Rising Demand in Food & Beverage Industry

Malonic acid, a versatile organic compound, has found a multitude of applications across various industries, and the food and beverage sector is no exception. In recent years, there has been a growing demand for malonic acid in this industry, driven by its unique properties and its ability to meet several critical needs, from enhancing flavor profiles to improving food preservation and

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safety. One of the key factors driving the demand for malonic acid in the food and beverage sector is its role in enhancing flavors and aromas. Malonic acid derivatives are commonly used as acidulants to impart a tart or sour taste to a wide range of food and beverage products. This tartness can be tailored to specific preferences, making it a valuable tool for flavor modulation in products like candies, beverages, and confectionery.

Moreover, malonic acid derivatives are involved in the formation of various aroma compounds through esterification and condensation reactions. These compounds contribute to the overall sensory experience of food and beverages, influencing taste, smell, and even texture. The ability of malonic acid to create and enhance these aroma compounds has made it an essential ingredient in the formulation of a variety of flavored products, from fruit-flavored beverages to baked goods. In food and beverage manufacturing, maintaining the right pH level is crucial for product safety, stability, and preservation. Malonic acid and its salts are used as acidulants to control and adjust the pH of food and beverage products. This pH control is vital for preventing spoilage, inhibiting bacterial growth, and preserving the shelf life of these products.

India's government has actively supported industrial expansion in the food processing sector through approvals for joint ventures, foreign collaborations, industrial licenses, and 100% export-oriented units, collectively drawing USD 6.8 billion in FDI equity inflows between 2014 and 2023-24. In the fiscal year 2023-24 alone, processed food accounted for 23.4% of India's total agricultural exports, amounting to USD 7.7 billion. This robust export performance reflects growing global demand for value-added food products and aligns with the increasing use of chemical intermediates like malonic acid, which serve as acidulants and flavor enhancers in processed foods and beverages. Meanwhile, macroeconomic trends such as urbanization, projected by the United Nations to rise from 55% today to 68% of the global population by 2050 are set to further drive consumption of packaged and shelf-stable foods. With nearly 90% of urban population growth expected in Asia and Africa, demand for food additives and functional ingredients, including malonic acid, is poised for sustained growth, especially in emerging economies like India. These structural shifts present significant opportunities for malonic acid manufacturers to capitalize on the rising demand from the food and beverage sector.

Key Market Challenges

Supply Chain Disruptions and Environmental Concerns

One of the most significant challenges faced by the malonic acid market in recent times is supply chain disruptions. Global events, such as the COVID-19 pandemic, have highlighted vulnerabilities in the supply chain. Interruptions in the production of key raw materials and logistical bottlenecks can cause shortages and price fluctuations in the malonic acid market. To mitigate these disruptions, diversifying supply sources and adopting resilient supply chain strategies are essential.

Moreover, environmental sustainability is increasingly important in today's markets. Malonic acid production, like many chemical processes, can have environmental impacts. Its synthesis traditionally involved hazardous chemicals. Addressing these concerns requires the adoption of greener and more sustainable production methods, such as bio-based or catalytic processes. Meeting stringent environmental regulations is crucial to ensuring the long-term viability of malonic acid production.

Key Market Trends

Demand from Agriculture and Crop Protection

In agriculture, malonic acid-based pesticides and herbicides are gaining prominence. These agrochemicals help in protecting crops by inhibiting the growth of unwanted weeds and pests. As the global population continues to grow, ensuring food security becomes paramount, and malonic acid's role in crop protection is a growing trend.

Furthermore, malonic acid derivatives are utilized in the synthesis of agrochemicals, including herbicides and pesticides. With the global demand for food rising, the need for effective crop protection solutions is also increasing. Malonic acid's role in agrochemicals is expected to expand further as new and more environmentally friendly formulations are developed. These factors are anticipated to drive the growth of the global malonic acid market during the forecast period.

Key Market Players

- [] Lonza Group
- [] Thirumalai Chemicals Ltd.
- [] Central Drug House (P) Ltd.
- [] Columbus Chemical Industries, Inc.
- [] Tokyo Chemical Industry Co., Ltd.

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- Trace Zero LLC
- Merck KGaA
- J&K Scientific Ltd.
- Lygos Inc.
- Hefei TNJ Chemical Industry Co., Ltd.

Report Scope:

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

-□ Malonic Acid Market, By Application:

- o Flavor Enhancer
- o Additive
- o pH Controller
- o Precursor
- o Others

-□ Malonic Acid Market, By End Use Industry:

- o Food & Beverage
- o Pharmaceutical
- o Agriculture
- o Plastics
- o Paints & Coatings
- o Others

-□ Malonic Acid Market, By Region:

- o Asia-Pacific
 - China
 - India
 - Australia
 - Japan
 - South Korea
- o Europe
 - France
 - Germany
 - Spain
 - Italy
 - United Kingdom
- o North America
 - United States
 - Mexico
 - Canada
- o South America
 - Brazil
 - Argentina
 - Colombia
- o Middle East & Africa
 - South Africa
 - Saudi Arabia
 - UAE

Competitive Landscape

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

Available Customizations:

Global Malonic Acid 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).

Table of Contents:

1. Product Overview
 - 1.1. Market Definition
 - 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations
2. Research Methodology
 - 2.1. Objective of the Study
 - 2.2. Baseline Methodology
 - 2.3. Key Industry Partners
 - 2.4. Major Association and Secondary Sources
 - 2.5. Forecasting Methodology
 - 2.6. Data Triangulation & Validation
 - 2.7. Assumptions and Limitations
3. Executive Summary
 - 3.1. Overview of the Market
 - 3.2. Overview of Key Market Segmentations
 - 3.3. Overview of Key Market Players
 - 3.4. Overview of Key Regions/Countries
 - 3.5. Overview of Market Drivers, Challenges, Trends
4. Impact of COVID-19 on Global Malonic Acid Market
5. Voice of Customer
6. Global Malonic Acid Market Outlook
 - 6.1. Market Size & Forecast
 - 6.1.1. By Value
 - 6.2. Market Share & Forecast
 - 6.2.1. By Application (Flavor Enhancer, Additive, pH Controller, Precursor, Others)
 - 6.2.2. By End Use Industry (Food & Beverage, Pharmaceutical, Agriculture, Plastics, Paints & Coatings, Others)
 - 6.2.3. By Region
 - 6.2.4. By Company (2024)
 - 6.3. Market Map
7. Asia Pacific Malonic Acid Market Outlook
 - 7.1. Market Size & Forecast
 - 7.1.1. By Value
 - 7.2. Market Share & Forecast
 - 7.2.1. By End Use Industry
 - 7.2.2. By Application
 - 7.2.3. By Country
 - 7.3. Asia Pacific: Country Analysis

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- 7.3.1. China Malonic Acid Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By End Use Industry
 - 7.3.1.2.2. By Application
- 7.3.2. India Malonic Acid Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By End Use Industry
 - 7.3.2.2.2. By Application
- 7.3.3. Australia Malonic Acid Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By End Use Industry
 - 7.3.3.2.2. By Application
- 7.3.4. Japan Malonic Acid Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By End Use Industry
 - 7.3.4.2.2. By Application
- 7.3.5. South Korea Malonic Acid Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By End Use Industry
 - 7.3.5.2.2. By Application
- 8. Europe Malonic Acid Market Outlook
 - 8.1. Market Size & Forecast
 - 8.1.1. By Value
 - 8.2. Market Share & Forecast
 - 8.2.1. By End Use Industry
 - 8.2.2. By Application
 - 8.2.3. By Country
 - 8.3. Europe: Country Analysis
 - 8.3.1. France Malonic Acid Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By End Use Industry
 - 8.3.1.2.2. By Application
 - 8.3.2. Germany Malonic Acid Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value

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- 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By End Use Industry
 - 8.3.2.2.2. By Application
- 8.3.3. Spain Malonic Acid Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By End Use Industry
 - 8.3.3.2.2. By Application
- 8.3.4. Italy Malonic Acid Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By End Use Industry
 - 8.3.4.2.2. By Application
- 8.3.5. United Kingdom Malonic Acid Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By End Use Industry
 - 8.3.5.2.2. By Application
- 9. North America Malonic Acid Market Outlook
 - 9.1. Market Size & Forecast
 - 9.1.1. By Value
 - 9.2. Market Share & Forecast
 - 9.2.1. By End Use Industry
 - 9.2.2. By Application
 - 9.2.3. By Country
 - 9.3. North America: Country Analysis
 - 9.3.1. United States Malonic Acid Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By End Use Industry
 - 9.3.1.2.2. By Application
 - 9.3.2. Mexico Malonic Acid Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By End Use Industry
 - 9.3.2.2.2. By Application
 - 9.3.3. Canada Malonic Acid Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By End Use Industry
 - 9.3.3.2.2. By Application

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- 10. South America Malonic Acid Market Outlook
 - 10.1. Market Size & Forecast
 - 10.1.1. By Value
 - 10.2. Market Share & Forecast
 - 10.2.1. By End Use Industry
 - 10.2.2. By Application
 - 10.2.3. By Country
 - 10.3. South America: Country Analysis
 - 10.3.1. Brazil Malonic Acid Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By End Use Industry
 - 10.3.1.2.2. By Application
 - 10.3.2. Argentina Malonic Acid Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By End Use Industry
 - 10.3.2.2.2. By Application
 - 10.3.3. Colombia Malonic Acid Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By End Use Industry
 - 10.3.3.2.2. By Application
- 11. Middle East and Africa Malonic Acid Market Outlook
 - 11.1. Market Size & Forecast
 - 11.1.1. By Value
 - 11.2. Market Share & Forecast
 - 11.2.1. By End Use Industry
 - 11.2.2. By Application
 - 11.2.3. By Country
 - 11.3. MEA: Country Analysis
 - 11.3.1. South Africa Malonic Acid Market Outlook
 - 11.3.1.1. Market Size & Forecast
 - 11.3.1.1.1. By Value
 - 11.3.1.2. Market Share & Forecast
 - 11.3.1.2.1. By End Use Industry
 - 11.3.1.2.2. By Application
 - 11.3.2. Saudi Arabia Malonic Acid Market Outlook
 - 11.3.2.1.1. By Value
 - 11.3.2.2. Market Share & Forecast
 - 11.3.2.2.1. By End Use Industry
 - 11.3.2.2.2. By Application
 - 11.3.3. UAE Malonic Acid Market Outlook
 - 11.3.3.1. Market Size & Forecast

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- 11.3.3.1.1. By Value
- 11.3.3.2. Market Share & Forecast
- 11.3.3.2.1. By End Use Industry
- 11.3.3.2.2. By Application
- 12. Market Dynamics
- 12.1. Drivers
- 12.2. Challenges
- 13. Market Trends & Developments
- 13.1. Recent Developments
- 13.2. Product Launches
- 13.3. Mergers & Acquisitions
- 14. Global Malonic Acid Market: SWOT Analysis
- 15. Pricing Analysis
- 16. Porter's Five Forces Analysis
- 16.1. Competition in the Industry
- 16.2. Potential of New Entrants
- 16.3. Power of Suppliers
- 16.4. Power of Customers
- 16.5. Threat of Substitute Product
- 17. Competitive Landscape
- 17.1. Lonza Group
 - 17.1.1. Business Overview
 - 17.1.2. Company Snapshot
 - 17.1.3. Products & Services
 - 17.1.4. Financials (As Reported)
 - 17.1.5. Recent Developments
- 17.2. Thirumalai Chemicals Ltd.
- 17.3. Central Drug House (P) Ltd.
- 17.4. Columbus Chemical Industries, Inc.
- 17.5. Tokyo Chemical Industry Co., Ltd.
- 17.6. Trace Zero LLC
- 15.7. Merck KGaA
- 17.8. J&K Scientific Ltd.
- 17.9. Lygos Inc.
- 17.10. Hefei TNJ Chemical Industry Co., Ltd.
- 18. Strategic Recommendations
- 19. About Us & Disclaimer

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