

Global Pharmaceutical Grade Citric Acid Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Pharmaceutical Grade Citric Acid market size is expected to reach \$ 866 million by 2032, rising at a market growth of 4.1% CAGR during the forecast period (2026-2032).

In 2025, global pharmaceutical grade citric acid production reached approximately 529 kilotons, the average price is 1200 usd/ton. Pharmaceutical grade citric acid, the essence is in line with the national pharmacopoeia standards, can be used as drugs or pharmaceutical excipients citric acid. It is not only a chemical substance, but also a kind of medicinal raw material with legal identity, which must meet the strict physiological safety requirements such as injection and oral administration.

Market Concentration and Key Players:

Internationally, the market concentration degree of pharmaceutical-grade citric acid is relatively high, mainly concentrated in developed countries such as Europe and America. For example, Cargill Incorporated and ADM and other large manufacturers; from the domestic point of view, pharmaceutical grade citric acid still has great development space.

Manufacturing Processes and Market Trends:

The mainstream production of pharmaceutical grade citric acid completely depends on *Aspergillus niger* submerged fermentation process, which takes corn or cassava sugar as substrate and is metabolized in fermenter with strict temperature control and pH control, which replaces the old chemical synthesis and surface fermentation method. After the fermentation broth is filtered by a plate frame to remove thalli, the fermentation

broth enters a key calcium salt-sulfuric acid acidification extraction link, namely, crude acid is released by generating calcium citrate precipitate and then acidolysis, and most impurities can be effectively separated in this process. The subsequent refining process determines its 'pharmaceutical grade' status. It must undergo activated carbon decolorization, ion exchange to remove heavy metals, multi-stage recrystallization and ultrafiltration for injection grade to remove endotoxin, and finally complete aseptic drying and packaging in a GMP clean environment.

At the market level, the global pharmaceutical-grade citric acid market is expected to expand steadily, with North America currently accounting for the highest proportion, while the Asia-Pacific region has the fastest growth due to pharmaceutical capacity transfer. The core driver of growth is the surge in demand for biopharmaceuticals and injectables, particularly for applications in hemodialysis, anticoagulant preservation, and mRNA vaccine buffer systems. Your European market (including Germany) is mature, but driven by green chemistry and REACH regulations, it is gradually shifting towards high-purity, low-endotoxin injection-grade products, while the supply chain is also coping with the cost pressures of raw material fluctuations and cGMP compliance.

This report studies the global Pharmaceutical Grade Citric Acid production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Pharmaceutical Grade Citric Acid and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Pharmaceutical Grade Citric Acid that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Pharmaceutical Grade Citric Acid total production and demand, 2021-2032, (Kilotons)

Global Pharmaceutical Grade Citric Acid total production value, 2021-2032, (USD Million)

Global Pharmaceutical Grade Citric Acid production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Pharmaceutical Grade Citric Acid consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Pharmaceutical Grade Citric Acid domestic production, consumption, key domestic manufacturers and share

Global Pharmaceutical Grade Citric Acid production by manufacturer, production, price,

value and market share 2021-2026, (USD Million) & (Kilotons)

Global Pharmaceutical Grade Citric Acid production by Shape, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Pharmaceutical Grade Citric Acid production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Pharmaceutical Grade Citric Acid market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Mireca International (India), ADM / Archer Daniels Midland Company (USA), Hawkins (USA), Jungbunzlauer Suisse (Switzerland), MP Biomedicals (USA), Hawkins (USA), Cargill Incorporated (USA), RZBC Group (China), Citribel (Belgium), Huangshi Xinghua Biochemical (China), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Pharmaceutical Grade Citric Acid market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Shape, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Pharmaceutical Grade Citric Acid Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Pharmaceutical Grade Citric Acid Market, Segmentation by Shape:

Powder Citric Acid

Liquid Citric Acid

Global Pharmaceutical Grade Citric Acid Market, Segmentation by Structure:

Citric Acid Anhydrous

Citric Acid Monohydrate

Global Pharmaceutical Grade Citric Acid Market, Segmentation by Standard:

USP

EP

BP

ChP

JP

Global Pharmaceutical Grade Citric Acid Market, Segmentation by Application:

Pharmaceuticals

Healthcare

Others

Companies Profiled:

Mireca International (India)

ADM / Archer Daniels Midland Company (USA)

Hawkins (USA)

Jungbunzlauer Suisse (Switzerland)

MP Biomedicals (USA)

Hawkins (USA)

Cargill Incorporated (USA)

RZBC Group (China)

Citribel (Belgium)

Huangshi Xinghua Biochemical (China)

Nantong Feiyu Food Technology(China)

Jiangsu Kolod Food Ingredients(China)

Shandong Lemon Biochemical(China)

Key Questions Answered:

1. How big is the global Pharmaceutical Grade Citric Acid market?
2. What is the demand of the global Pharmaceutical Grade Citric Acid market?
3. What is the year over year growth of the global Pharmaceutical Grade Citric Acid market?

4. What is the production and production value of the global Pharmaceutical Grade Citric Acid market?
5. Who are the key producers in the global Pharmaceutical Grade Citric Acid market?
6. What are the growth factors driving the market demand?

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