Calcium Propionate Manufacturing Industry.

Production of Calcium Propionate

The calcium propionate market is projected to grow at a CAGR of 5.6%
Introduction

Calcium propionate, also commonly known as calcium propanoate, is produced through fermentation of bacteria. It is a natural salt available in small quantities in many food items. Calcium propionate is added to food items, as it keeps them fresh by preventing the growth of bacteria and mold. Calcium propionate acts as an antimicrobial agent; it kills microorganisms such as bacteria, algae, viruses, and fungi. It is considered an ideal bakery preservative. Additionally, calcium propionate is utilized in feed supplement to prolong the shelf life of food products.
Calcium propionate is the calcium salt of propionic acid. It is formed by reacting calcium hydroxide and propionic acid. Calcium propionate is available in powder, liquid and compressed form. It is a source of calcium and energy for dairy transition cows. Calcium propionate is used as a mold inhibitor in various dairy products, animal feed as well as in agricultural applications. Calcium propionate also acts as a food preservative and hence finds a wide range of application in the dairy products. It is used to guarantee food safety of bakery and dairy products. Its use in the baked food application depends on variety of factors such as climatic conditions, type of products and many others.
In addition, calcium propionate is mostly preferred in rolls as it contributes to nutrition enhancement by adding calcium. Moreover, calcium propionate finds application in pesticides. The global calcium propionate market is anticipated to witness a moderate single digit growth in the forecast period.

Calcium propionate is used as a food preservative in breads and other baked goods because of its ability to inhibit the growth of molds and other microorganisms. It is not toxic to these organisms, but does prevent them from reproducing and posing a health risk to humans.
Application:

- Calcium propionate is added with other ingredients in the dough. Potassium sorbate and sorbic acid cannot be used in dough since they damage the yeast and they can only be used by spraying on the surface of products after baked.
- Calcium propionate is the most effective below pH 5.5. Below this pH, the active component, propionic acid, is undissociated and becomes active. The dough pH needs to be below 5.5 and well controlled to effectively control mold.
• The recommended level of calcium propionate is 0.19-0.32% based on flour weight. At higher application levels, it imparts a distinct acid taste to bread.

• Calcium propionate can help lower the sodium concentration in bread. When 0.3% calcium propionate is used without sodium chloride, bread was mold free for 12 days. When 0.3% is used with 1.2% sodium chloride, the bread was mold free for 13 days.
Market Outlook

Global calcium propionate market is expected to witness high growth over the forecast period on account of growing consumer preferences for fresh food products. Increasing health concerns coupled with changing consumer lifestyle has prompted the use of calcium propionate in recent past. It is majorly used as a preservative in bakery products including bread, processed meat, baked products and various dairy products. Calcium propionate also acts as antimicrobial agent for killing microorganisms such as bacteria, algae, viruses and fungi.

The calcium propionate market is projected to grow at a CAGR of 5.6%, to reach a value of USD 363.3 million by 2023 from USD 277.1 million in 2018.
The growing food industry is expected to fuel the demand for calcium propionate in the forecast period. Moreover, the changing lifestyle is affecting the food consumption habits of people and hence is expected to boost the calcium propionate market. The increasing demand for food preservation is anticipated to be one of the major demand driver in the global calcium propionate market in the near future. Growing concerns among the customers regarding hygiene and fresh food would help grow the calcium propionate market. R&D investments and proper expansion in the growing markets can create better opportunities for the global calcium propionate market players.
The growing food industry in China and India is expected to boost the demand for calcium propionate in developing regions in the upcoming years. However, the stringent regulations pertaining to quality and food safety is projected to restrain the global calcium propionate market. Local regulations should be checked for allowed applications and dosage levels.

For example, calcium propionate is authorized for use in food and technology additives in Europe. However, the usage rates in Southeast Asia may be higher as compared to Europe as the conditions are more favorable for growth of spoilage organisms. Also, growing competition from other preservatives such as sodium propionate would be a threat for global calcium propionate market.
Some of the key market players identified in the global calcium propionate market are:

- Niacet Corporation
- ADDCON GmbH
- M Food Chemical Co., Ltd.
- Kemira Oyj.
- Fine Organics
- Orthochem Pty Ltd
- Perstorp Holding AB
- Impextraco NV
Increasing adoption of calcium propionate by food industry is a major factor driving growth of the global calcium propionate market. In addition, increasing demand for ready-to-eat and packaged food products is another factor propelling growth of the target market.

A major factor hampering growth of the global calcium propionate market is stringent regulations for quality and safety of food products. In addition, availability of substitutes is another factor expected to restrain growth of the target market to a certain extent over the forecast period.

On the basis of application, the global market is segmented into bakery products, dairy & frozen desserts, meat, fish, and seafood products, animal feed, beverages, and others. The others segment includes pharmaceutical and agriculture.
Global Calcium Propionate Share, By the Application (%)
It is a cost effective solution as compared to the other preservatives, which is a major factor that drives the market. Apart from being used as a preservative, it has a wide range of functions that drives the market, such as being used as an additive in cow feed. When it is used as an additive, it avoids the spread of milk fever disease among cows. Additionally, it can also be used as a pesticide for plants. The increasing demand for ‘free-from’ food such as non-preservative food is the major restraint of the mentioned market. Moreover, the scarcity of raw materials and its rising prices are hindering production volumes. The product demand is increasing in the emerging markets such as Asia pacific and Latin American countries, which are almost unexplored. Therefore, proper expansion planning in these regions would be a great opportunity. In addition, manufactures are now focusing on various R&D and innovation investments to launch new products.
Rise in demand for preserved food is the major factor expected to drive the calcium propionate market during the forecast period. Increase in awareness about health in the food industry is also anticipated to boost the calcium propionate market. Calcium propionate offers various functional properties in different product lines. This coupled with the relatively lower cost of calcium propionate vis-à-vis other food preservatives is projected to propel the market in the near future. However, rise in demand for natural food preservatives is likely to hamper the market. Implementation of stringent government regulations on the production of synthetic food preservatives is also estimated to negatively impact the calcium propionate market. Nevertheless, untapped markets in emerging economies such as Asia Pacific, Latin America, and few regions of Africa offer immense opportunities to the calcium propionate market.
Global Calcium Propionate Market Share (%), By Region (2017)

- MEA: XX.X
- Latin America: XX.X
- Asia Pacific: XX.X
- North America: XX.X
- Europe: 37.3%

CAGR 3.9% (2018 - 2026)
Based on region, the global calcium propionate market can be segregated into North America, Europe, Asia Pacific, Latin America, and Middle East & Africa. Europe accounted for prominent share of the global calcium propionate market in 2018. It was followed by North America, Asia Pacific, Latin America and Middle East. However, Asia Pacific is expected to be a rapidly growing region of the market during the forecast period. Europe is anticipated to maintain its leading position during the forecast period.
Machinery Photographs

Rotary Dryer
Filling and Packing Machine

Vaporizer Cap
## Project at a Glance

### Cost of Project

<table>
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<tr>
<th>Particulars</th>
<th>Existing</th>
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### Means of Finance

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## Project at a Glance

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<th>Yield Price/Book Value</th>
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# Project at a Glance

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<th>D. S. C. R.</th>
<th>Debt / Equity as % of Total Net Worth</th>
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<th>Asset Turnover Ratio</th>
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## Project at a Glance

<table>
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<th>BEP</th>
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<td>BEP - Maximum Utilisation Year</td>
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<td>Cash BEP (% of Installed Capacity)</td>
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<td>Total BEP (% of Installed Capacity)</td>
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<tr>
<td>IRR, PAYBACK and FACR</td>
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<td>Internal Rate of Return (In %age)</td>
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<td>Payback Period of the Project is (In Years)</td>
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<td>Fixed Assets Coverage Ratio (No. of times)</td>
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</table>
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2. How has the Calcium Propionate Manufacturing industry performed so far and how will it perform in the coming years?

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4. What are the requirements of Working Capital for setting up Calcium Propionate Manufacturing plant?
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Reasons for Buying our Report:

• This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product.

• This report provides vital information on the product like its characteristics and segmentation.

• This report helps you market and place the product correctly by identifying the target customer group of the product.
• This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials
• The report provides a glimpse of government regulations applicable on the industry
• The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions
Our Approach:

• Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.

• The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players.

• We use reliable sources of information and databases. And information from such sources is processed by us and included in the report.
**Scope of the Report**

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Calcium Propionate.” provides an insight into Calcium Propionate market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Calcium Propionate project. The report assesses the market sizing and growth of the Indian Calcium Propionate Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:
• Good Present/Future Demand
• Export-Import Market Potential
• Raw Material & Manpower Availability
• Project Costs and Payback Period

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Calcium Propionate sector in India along with its business prospects. Through this report we have identified Calcium Propionate project as a lucrative investment avenue.

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Production of Calcium Propanoate

The calcium propionate market is projected to grow at a CAGR of 5.6%.

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And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- Good Present/Future Demand
- Export-Import Market Potential
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- Project Costs and Payback Period

The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,
Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

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- We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients’ in India & abroad
We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.
We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.
What do we offer?

- Project Identification
- Detailed Project Reports/Pre-feasibility Reports
- Market Research Reports
- Business Plan
- Technology Books and Directory
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- Laboratory Testing Services
- Turnkey Project Consultancy/Solutions
- Entrepreneur India (An Industrial Monthly Journal)
How are we different?

- We have two decades long experience in project consultancy and market research field
- We empower our customers with the prerequisite know-how to take sound business decisions
- We help catalyze business growth by providing distinctive and profound market analysis
- We serve a wide array of customers, from individual entrepreneurs to Corporations and Foreign Investors
- We use authentic & reliable sources to ensure business precision
Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation
Contact us

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