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CALCIUM PROPIONATE

Manufacturing Industry

Market is projected to register a CAGR of over 3%

Calcium propionate is a food preservative and mold inhibitor used in baked goods, candy, condiments, pickles, cheese, butter and other processed foods. It inhibits the growth of yeasts, molds and bacteria in these products by preventing water activity. Most often it's used to inhibit mold growth in breads and cakes because of its high level of potency against mold spores and ability to prevent moisture absorption by the food item.

**Here are all the steps you need
to know about how to start
your own calcium propionate
manufacturing business!**

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INTRODUCTION

Calcium propionate is an anti-microbial agent that inhibits mold growth on dried fruits and vegetables. It can also be used to prevent mold growth in stored grains, flour, cocoa beans, and potatoes.





Because it acts as a preservative for food products, it may help extend their shelf life by reducing microbial activity. Calcium propionate has many applications in food production because of its ability to inhibit mold growth.



This makes it useful for preventing spoilage of foods during storage or transportation. Food producers may add calcium propionate directly to packaged foods or apply it via spray application to fresh produce before packaging.

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In either case, it will coat the surface of whatever is being treated and act as a preservative when exposed to air or moisture.

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USES

Calcium propionate is used in a variety of food products to prevent mold growth, such as dry milk powder and certain cheeses. It can also be found in items such as confectionary sweeteners and whipped topping mixes.




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It is approved for use in food products with a pH level range of 5.5–8.5 and a minimum moisture content of 18%. The chemical compound acts as an anti-fungal agent that prevents molds from growing on food products.

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A microscopic view of mold spores, showing a dense cluster of small, spherical, light-colored spores with a fuzzy, textured appearance. The spores are set against a dark, almost black background, which makes them stand out. The overall image has a slightly grainy, high-magnification quality.

The preservative has been shown to protect against molds such as *Aspergillus flavus*, *Penicillium patulum* and *Penicillium roqueforti*, which are common causes of cheese spoilage.

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➤ ***Business Plan: Calcium Propionate***



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In addition, calcium propionate has antibacterial properties that help fight off bacteria like E. coli O157:H7 and Salmonella typhimurium in foods like meat and poultry products. It does not cause any known side effects when consumed by humans at normal levels.

MANUFACTURING PROCESS

The production of calcium propionate involves three major processes:

- (1) Manufacture of Propionic Acid,
- (2) Manufacture of Calcium chloride, and
- (3) Propionic Esterification.

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The first step in manufacturing calcium propionate is to produce a liquid product called propionic acid by reacting acetic acid with methanol in a process known as acetone hydrolysis. In acetone hydrolysis, methanol reacts with acetic acid in an aqueous solution at elevated temperatures to form acetone and water as byproducts.

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The resulting mixture is distilled to separate these components from each other; water is removed as steam, while acetone remains liquid and is collected for further use. Acetone is then used again in another reaction to produce more propionic acid. Acetic acid can be produced through fermentation or petroleum refining.

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Once produced, it must be purified before being sent on to the next stage of its processing. The second step in producing calcium propionate is to convert acetic acid into another chemical called calcium chloride through a process known as neutralization. This occurs when acetic acid is mixed with lime and heated to very high temperatures.

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The resultant chemical reaction produces both calcium chloride and water, which are separated from one another using distillation techniques. Finally, propionic acid undergoes esterification to create calcium propionate. In esterification, propionic acid reacts with alcohols like ethylene glycol or 1-methoxy-2-propanol in a process that results in formation of carboxylic acids like calcium propionate.

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These reactions occur in a series of steps, beginning with mixing of propionic acid and alcohol. Next, concentrated sulfuric acid is added to catalyze the reaction between propionic acid and alcohols. Then, calcium hydroxide is added to remove excess sulfuric acid from the reaction mixture.

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After all these steps have been completed, calcium propionate can be extracted from the reaction mixture using vacuum filtration. It is also important to note that many variations exist in actual industrial production of calcium propionate because no single method has emerged as industry standard practice.

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Pulverizer



Rotary Dryer



Effluent Treatment Plant (ETP)



Boiler



MARKET SIZE

The calcium propionate market was valued at USD 277.1 million in 2018 and is expected to grow at a CAGR of 5.6 percent to USD 363.3 million by 2023. Calcium propionate market expansion is fueled by factors such as rising demand for clean-label food products with longer shelf lives and calcium propionate's cost-effectiveness when compared to alternative preservatives.

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Food safety and shelf life rules and regulations have made it difficult for food and feed processing businesses to formulate the proper combination of chemicals and preservatives without compromising product quality, which is a major limitation for the calcium propionate market.

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Consumers have been more aware of the value of health in recent years, and the market for calcium propionate is expected to rise at an unprecedented rate as a result of the increased demand for nutritional products. Consumers have shown a preference for natural and organic foods over synthetic foods, resulting in increased demand for calcium propionate.

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Calcium propionate has been used as a natural component in the food business since it is safe to ingest. Furthermore, to ensure food quality and safety, the food business employs modern technology such as MAP, bacteriophages, and different preservation processes. Furthermore, calcium propionate is utilized as a feed for animals, and the market is growing due to...

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..increased applications in the food preservative sector. Apart from the numerous applications of calcium propionate, it is also relatively cost-effective when compared to other alternatives such as sorbates, sulfites, and so on. Because of these factors, the calcium propionate market is expected to rise at an exponential rate.

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BENEFITS OF STARTING THIS BUSINESS



There are many benefits to starting a calcium propionate manufacturing business. You will be able to manufacture and sell your own brand of cattle supplements and additives, meaning you will also be able to name it. This can create extra revenue for your business when you sell these products as well as allow consumers to trust you.

When people know what they are buying, they feel better about their purchase and trust your company more than if they just bought an unknown product off a shelf in a store. In addition, there is no need to worry about competition with your own supplement line because there is only one option on the market that is made by you.

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The only thing you have to worry about is keeping up with demand and getting enough ingredients from suppliers. As long as you do those two things, you should be fine.

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Key Players

- ***Aksharchem (India) Ltd.***
- ***Asha Ram & Sons Pvt. Ltd.***
- ***Deep Pharm-Chem Pvt. Ltd.***
- ***Fine Organic Inds. Ltd.***
- ***New Alliance Dye Chem Pvt. Ltd.***
- ***Titan Bio-Tech Ltd.***

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PROJECT AT A GLANCE

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COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	170.00	170.00	Capital	0.00	259.16	259.16
Buildings	0.00	358.50	358.50	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	322.70	322.70	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	15.00	15.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	59.25	59.25	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	25.00	25.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	777.47	777.47
Preliminary& Pre-operative Exp	0.00	3.00	3.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	29.00	29.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	54.18	54.18				
TOTAL	0.00	1036.63	1036.63	TOTAL	0.00	1036.63	1036.63

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/Book Value
	EPS	CEPS	Per Share		Per Share	Per Share				No.of Times	
	`	`	`	`	`	%	`	%	`		%
1-2	5.38	9.21	15.38	24.00	0.00	100.00	5.38	0.00	5.38	1.00	0.00
2-3	8.07	11.41	23.45	18.00	0.00	100.00	8.07	0.00	8.07	1.00	0.00
3-4	10.73	13.65	34.19	12.00	0.00	100.00	10.73	0.00	10.73	1.00	0.00
4-5	13.32	15.88	47.51	6.00	0.00	100.00	13.32	0.00	13.32	1.00	0.00
5-6	15.82	18.07	63.34	0.00	0.00	100.00	15.82	0.00	15.82	1.00	0.00

Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turn over Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contrib ution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.34	1.34		1.56	1.56	2.29		13.19%	8.08%	5.62%	767.71	30.91%	1.93	0.96
2-3	1.63	1.48		0.77	0.77	1.32		14.96%	11.00%	7.22%	895.65	30.91%	2.09	1.25
3-4	1.97	1.63	1.97	0.35	0.35	0.78		16.14%	13.09%	8.40%	1023.60	30.91%	2.12	1.60
4-5	2.38	1.79		0.13	0.13	0.47		16.95%	14.58%	9.27%	1151.55	30.91%	2.07	1.99
5-6	2.87	1.97		0.00	0.00	0.29		17.48%	15.66%	9.91%	1279.50	30.91%	1.97	3.20

BEP**BEP - Maximum Utilisation Year****5****Cash BEP (% of Installed Capacity)****44.79%****Total BEP (% of Installed Capacity)****49.34%****IRR, PAYBACK and FACR****Internal Rate of Return .. (In %age)****25.78%****Payback Period of the Project is (In Years)****2 Years 3 Months****Fixed Assets Coverage Ratio (No. of times)****6.765**

- 1. What is Calcium Propionate Manufacturing industry ?**
- 2. How has the Calcium Propionate Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Calcium Propionate Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Calcium Propionate Manufacturing plant ?**

- 5. What is the structure of the Calcium Propionate Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Calcium Propionate Manufacturing Business?**
- 7. What are the operating costs for setting up Calcium Propionate Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Calcium Propionate Manufacturing plant ?**

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- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Calcium Propionate Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Calcium Propionate Manufacturing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Calcium Propionate Manufacturing Business?**
- 12. What is the Manufacturing Process of Calcium Propionate?**

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- 13. What is the total size of land required for setting up Calcium Propionate Manufacturing plant ?**
- 14. What will be the income and expenditures for Calcium Propionate Manufacturing Business?**
- 15. What are the Projected Balance Sheets of Calcium Propionate Manufacturing plant ?**
- 16. What are the requirement of utilities and overheads for setting up Calcium Propionate Manufacturing plant?**
- 17. What is the Built up Area Requirement and cost for setting up Calcium Propionate Manufacturing Business?**

- 18. What are the Personnel (Manpower) Requirements for setting up Calcium Propionate Manufacturing Business?**
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- 20. What is the time required to break-even of Calcium Propionate Manufacturing Business?**
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- 22. What are the Project financials of Calcium Propionate Manufacturing Business?**

23. What are the Profitability Ratios of Calcium Propionate Manufacturing Project?

24. What is the Sensitivity Analysis-Price/Volume of Calcium Propionate Manufacturing plant?

25. What are the Projected Pay-Back Period and IRR of Calcium Propionate Manufacturing plant?

26. What is the Process Flow Sheet Diagram of Calcium Propionate Manufacturing project?

27. What are the Market Opportunities for setting up Calcium Propionate Manufacturing plant?

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29. What is the Plant Layout for setting up Calcium Propionate Manufacturing Business?

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Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

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- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitality Projects
- Hospital Based Projects
- Herbal Based Projects
- Inks, Stationery And Export Industries
- Infrastructure Projects
- Jute & Jute Based Products

- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- Maize Processing(Wet Milling) & Maize Based Projects
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- Organic Farming, Neem Products Etc.
- Paints, Pigments, Varnish & Lacquer
- Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- Perfumes, Cosmetics And Flavours
- Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- Plantations, Farming And Cultivations
- Plastic Film, Plastic Waste And Plastic Compounds
- Plastic, PVC, PET, HDPE, LDPE Etc.

- Potato And Potato Based Projects
- Printing And Packaging
- Real Estate, Leisure And Hospitality
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals
- Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry(Packaged Drinking Water & Mineral Water)
- Wire & Cable

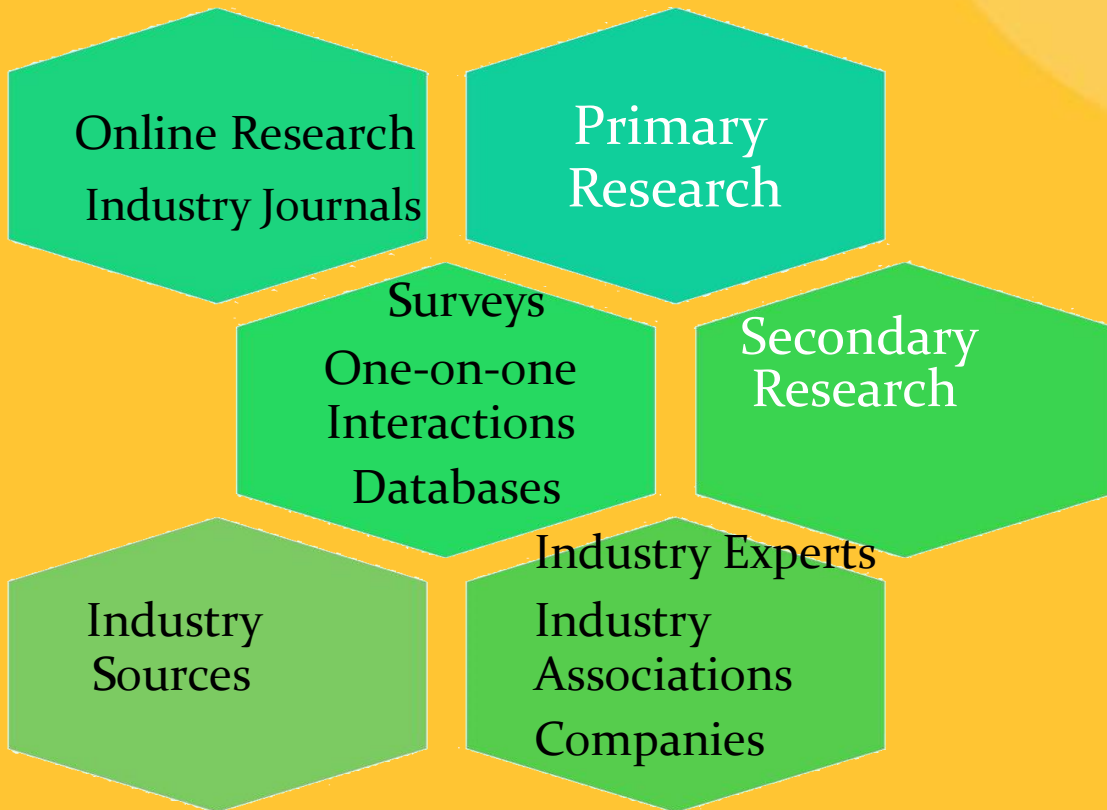
- To get a detailed scenario of the industry along with its structure and classification
- To provide a comprehensive analysis of the industry by covering aspects like:
 - Growth drivers of the industry
 - Latest market trends
 - Insights on regulatory framework
 - SWOT Analysis
 - Demand-Supply Situation
 - Foreign Trade
 - Porters 5 Forces Analysis
- To provide forecasts of key parameters which helps to anticipate the industry performance
- To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- To help an entrepreneur/manager in keeping abreast with the changes in the industry
- To evaluate the competitive landscape of the industry by detailing:
 - Key players with their market shares
 - Financial comparison of present players

- Venturist/Capitalists
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- Industry Researchers
- Investment Funds
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