

**India Butyric Acid Market By Type (Synthetic, Non-Synthetic), By End Use (Animal Feed, Chemical Intermediates, Pharmaceuticals, Food & Beverage, Others), By Distribution Channel (Direct Sales, Direct Import, Distributors/Suppliers/Traders), By Region, Competition, Forecast and Opportunities, 2019-2029**

Market Report (3 business days) | 2023-10-03 | 78 pages | TechSci Research

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**Report description:**

The India Butyric Acid Market has achieved a significant milestone by reaching USD 91.25 million in 2023. This impressive growth trajectory is expected to continue with robust expansion projected throughout the forecast period, boasting a Compound Annual Growth Rate (CAGR) of 4.11% through 2029 and is anticipated to reach at USD 115.26 million by 2029. Butyric acid, classified as a short-chain fatty acid, boasts diverse applications within the pharmaceutical industry. Its significance lies in its ability to promote digestive health, weight management, and even cancer prevention. Scientific studies have highlighted its remarkable anti-cancer effects, as it induces morphological and biochemical differentiation in various cells, making it a potential ally in the fight against colon cancer.

In addition to its pharmaceutical applications, butyric acid plays a pivotal role in various industries, particularly in the food, chemical, and flavors sectors. It serves as a fundamental component in formulating and manufacturing a wide range of products. For example, in the food industry, esters of butyric acid are employed as additives to enhance food flavors and aroma profiles. Low molecular weight butyric acid esters, such as methyl butyrate, are renowned for their delightful aromas and tastes, making them highly sought-after food additives. The burgeoning utilization of butyric acid as a specialty chemical in industries like food and chemicals has given rise to significant trends in the butyric acid market. This versatile compound continues to propel advancements across various sectors, thanks to its diverse industrial applications.

Key Market Drivers

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## 1. Increasing Demand from the Animal Feed Sector

The butyric acid market in India is experiencing remarkable growth, propelled by several factors, including its expanding industrial applications and heightened awareness of its health benefits. A standout driver is the surging demand from the animal feed sector, which has gained significant momentum due to India's remarkable growth in its animal feed industry in recent years. Factors such as population growth, rising income levels, and changing dietary preferences have led to increased consumption of meat, milk, and other animal-based products in India. Consequently, the demand for high-quality animal feed has surged, creating a need for additives like butyric acid.

Butyric acid, with its versatility, plays a vital role in enhancing animal nutrition by improving digestibility and promoting gut health. It acts as an energy source for intestinal cells, stimulating their growth and enhancing the absorption of essential nutrients. Furthermore, butyric acid possesses antimicrobial properties, which help maintain a healthy microbiota balance in animals' digestive systems. These advantages have made butyric acid a sought-after additive in animal feed formulations.

Amid growing concerns about antibiotic resistance, there is a rising emphasis on finding alternatives to antibiotics in animal production. Butyric acid has shown promise as a natural alternative due to its antimicrobial properties, making it an attractive option for producers. It can help reduce reliance on antibiotics while still ensuring optimal animal health and performance. Consequently, the demand for butyric acid in animal feed has surged significantly as producers seek safer and more sustainable solutions to meet the industry's increasing demands. The growth of the butyric acid market in India is expected to continue its upward trajectory, driven by the ongoing need for high-quality animal feed and the desire to find effective alternatives to antibiotics in animal production.

## 2. Growing Demand for Packaged Food

Recent years have witnessed a notable shift in consumer preferences towards convenient and ready-to-eat packaged food products. This transformation can be attributed to various factors, including individuals' increasingly hectic lifestyles, rapid urbanization, and the rise of dual-income households. As a result, consumers are actively seeking convenient options that offer time-saving solutions without compromising on the quality and taste of their food choices. With the burgeoning demand for convenience, the packaged food industry has witnessed a surge in popularity.

However, to ensure these food products maintain their quality and have an extended shelf life, effective preservation methods are essential. This is where additives like butyric acid come into play. Butyric acid plays a crucial role in preserving packaged food by inhibiting the growth of harmful bacteria and microorganisms. By preventing spoilage, rancidity, and deterioration, butyric acid ensures that food products remain fresh and safe for consumption throughout their entire shelf life.

Moreover, butyric acid is characterized by a buttery, cheesy, and slightly acidic taste that adds depth and richness to food products. Recognizing the value of enhancing the flavor and taste of their packaged food offerings, food manufacturers have increasingly incorporated butyric acid into their formulations. The addition of butyric acid provides a rich and savory note, making the food more appealing to consumers and contributing to its overall sensory appeal.

Furthermore, the demand for natural and organic food products has been on the rise, and this trend has significantly impacted India's butyric acid market. Consumers are now more conscious about the ingredients used in their food and are actively seeking out natural and organic alternatives. Butyric acid, when derived from renewable sources, aligns perfectly with this consumer preference for natural and sustainable ingredients. Its application in packaged food products caters to the growing demand for cleaner labels and healthier options, further driving its popularity.

To ensure the safety and quality of packaged food items, regulatory bodies in India have implemented stringent quality standards

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and regulations. These regulations serve as safeguards for consumers, ensuring that additives like butyric acid meet the required safety and quality criteria. By complying with these regulations and adhering to quality assurance practices, manufacturers can build trust and credibility among consumers. The stringent regulatory framework in place has further underscored the demand for high-quality butyric acid in the packaged food industry, making it a crucial ingredient for manufacturers to consider.

In conclusion, the evolving consumer preferences towards convenience, coupled with the need for effective preservation methods, have driven the demand for butyric acid in the packaged food industry. Its unique flavor profile, coupled with the increasing demand for natural and organic food products, has further fueled its popularity. By complying with stringent regulatory standards, manufacturers can ensure the safety and quality of their products, thereby meeting the growing demand for high-quality butyric acid in the market.

### 3. Growing Demand for Butyric Acid in the Pharmaceutical Industry

The pharmaceutical industry in India has been experiencing remarkable growth in recent years, driven by factors such as the rapidly increasing population, rising healthcare awareness, improving healthcare infrastructure, and favorable government initiatives. As a result, there is a growing need for high-quality ingredients and additives, including butyric acid, to meet the ever-increasing requirements of pharmaceutical formulations.

Butyric acid, with its unique properties, offers several valuable benefits that make it particularly useful in the pharmaceutical industry. It acts as an effective excipient and additive in drug formulations, enhancing drug stability, facilitating drug delivery, and improving the bioavailability of specific drugs.

Additionally, butyric acid possesses antimicrobial and anti-inflammatory properties, which can be highly beneficial in the treatment of various diseases and conditions. One prominent area where the demand for butyric acid is steadily growing within the pharmaceutical industry is cancer research and treatment. Studies have shown promising results in inhibiting the growth of cancer cells and inducing cell differentiation. This potential makes butyric acid an attractive candidate for use as an adjunct therapy in conjunction with other cancer treatments. As research in this field progresses, the demand for butyric acid is expected to continue to rise.

Furthermore, butyric acid plays a crucial role in maintaining gastrointestinal health. It acts as a fuel source for the cells lining the colon, promoting their growth and repair. This unique property makes butyric acid a potential therapeutic agent for the treatment of various gastrointestinal disorders,

including inflammatory bowel disease and irritable bowel syndrome. The increasing prevalence of these conditions has significantly contributed to the growing demand for butyric acid in the pharmaceutical industry.

In addition to its gastrointestinal benefits, several studies have also demonstrated the neuroprotective properties of butyric acid, which can support brain health. Researchers have investigated its potential as a treatment for neurological disorders such as Alzheimer's disease, Parkinson's disease, and multiple sclerosis. As a result, the demand for butyric acid in the pharmaceutical industry is expected to rise further as researchers continue to explore its potential benefits in these areas.

The Indian pharmaceutical industry is fortunate to benefit from supportive government regulations and research initiatives. Regulatory bodies ensure the quality and safety of pharmaceutical products, including additives like butyric acid. Research institutions and academic organizations actively engage in research and development activities to explore the vast potential applications of butyric acid in pharmaceutical formulations. These favorable factors create a conducive environment for market growth and innovation in the Indian pharmaceutical industry.

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## Key Market Challenges

### 1. Odor Arising from Acids Can Impede Market Growth

One of the significant challenges facing the butyric acid market is the strong and pungent odor associated with it. Consumers are highly sensitive to odors, and unpleasant smells can have a detrimental impact on their perception of a product. In the case of butyric acid, its odor can discourage consumers from using or purchasing products containing it, even if they offer potential benefits. This challenge becomes particularly critical in industries such as food, pharmaceuticals, and cosmetics, where sensory appeal plays a vital role in consumer acceptance.

In today's market, there is a growing trend towards odorless products, particularly in industries that directly interact with consumers. Consumers seek products with minimal or no odor, associating pleasant smells with cleanliness, freshness, and quality. Consequently, the strong odor of butyric acid can create a barrier to market penetration, as manufacturers grapple with reconciling the potential benefits of butyric acid with consumer preferences for odorless products.

Moreover, the impact of odor extends beyond consumer perception. The unpleasant smell of butyric acid can also affect the working environment for employees in industries where it is used. It can cause discomfort, reduced productivity, and potential health issues. Therefore, finding effective solutions to mitigate or remove the odor of butyric acid is crucial, not only for consumer acceptance but also for the overall well-being and satisfaction of employees.

Addressing this challenge requires a multi-faceted approach. Research and development efforts can focus on minimizing or neutralizing the odor of butyric acid while retaining its beneficial properties. Additionally, innovative packaging techniques can be explored to prevent the escape of odorous molecules, ensuring that products containing butyric acid maintain their integrity and appeal. By addressing the issue of odor, manufacturers can overcome the barrier to market penetration posed by butyric acid. By offering odorless or minimally odorous alternatives, they can meet consumer preferences and enhance their products' acceptance. Moreover, this can open up new opportunities for the utilization of butyric acid in various applications, leading to advancements and innovations in industries that rely on its unique properties.

### 2. Irritation to the Skin and Eyes Restricts Market Growth

Butyric acid, while a valuable compound with diverse applications, has the potential to cause irritation to the skin and eyes. This irritation poses a significant challenge, especially in industries where direct contact with human skin and eyes is involved, such as cosmetics, pharmaceuticals, and personal care products. In today's market, where consumers are increasingly conscious about safety and seek products that are gentle on their skin and eyes, the potential for irritation associated with butyric acid may discourage them from using products containing this compound, thereby restricting market growth.

In the context of the Indian market, regulatory compliance and adherence to safety standards are crucial considerations. Regulatory bodies closely monitor the use of chemicals in various industries, including the use of butyric acid. Manufacturers are required to comply with safety regulations and ensure that their products meet the required standards for consumer safety. Failure to address concerns related to skin and eye irritation may lead to restrictions or limitations on the usage of butyric acid in certain applications, further impeding market growth.

Given this, it is vital for manufacturers and industry stakeholders to prioritize addressing the potential for irritation associated with butyric acid. By investing in research and development, innovative solutions can be developed to minimize or eliminate the irritant properties of butyric acid, allowing for safer and more widely accepted applications in the market. By demonstrating a commitment to consumer safety and addressing regulatory concerns, manufacturers can navigate the complexities of the market, ensuring sustained growth and success.

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## Key Market Trends

### 1. Anti-inflammatory Properties Drive Market Expansion

The butyric acid market in India is currently experiencing a significant trend driven by the expanding demand for compounds with potent anti-inflammatory properties. Butyric acid, a versatile compound derived from various natural sources, has shown promising effects in reducing inflammation, leading to its increased adoption in various industries.

Inflammation is a natural response by the body to injury or infection and is essential for healing. However, chronic inflammation can lead to various health issues and is associated with conditions such as inflammatory bowel disease, rheumatoid arthritis, and cardiovascular diseases. As a result, there has been a growing demand for natural compounds with anti-inflammatory properties, as they offer potential therapeutic benefits without the side effects associated with certain medications.

Butyric acid has emerged as an attractive compound for various industries due to its anti-inflammatory properties. Scientific studies have indicated that butyric acid can modulate immune responses and inhibit the production of pro-inflammatory molecules in the body. This unique property makes it potentially beneficial in managing inflammation-related conditions and promoting overall well-being.

The pharmaceutical industry, in particular, has recognized the potential of butyric acid with anti-inflammatory properties. Researchers are actively exploring the use of butyric acid in the development of therapeutics for inflammatory diseases. Its ability to reduce inflammation and regulate immune responses makes it a promising candidate for drug formulations targeting conditions such as inflammatory bowel disease, colitis, and certain types of cancer.

Furthermore, the cosmetic and personal care industry is witnessing an increasing demand for products with anti-inflammatory properties. Butyric acid's potential as an anti-inflammatory agent has led to its incorporation into skincare formulations. It is believed to soothe irritated skin, reduce redness, and alleviate the symptoms of certain skin conditions, such as acne, eczema, and rosacea. The incorporation of butyric acid in skincare products addresses the growing consumer preference for natural and effective ingredients.

The Indian market for butyric acid with anti-inflammatory properties benefits from favorable regulatory frameworks and ongoing research initiatives. Regulatory bodies ensure the safety and efficacy of products containing butyric acid, providing confidence to manufacturers and consumers alike. Additionally, research institutions and academic organizations play a crucial role in conducting studies and exploring the potential applications of butyric acid in combating inflammation-related conditions.

Overall, the expanding demand for butyric acid with anti-inflammatory properties in the Indian market is driven by the increasing awareness of the detrimental effects of chronic inflammation and the growing preference for natural and effective solutions. As research continues to uncover the potential benefits of butyric acid, its applications are expected to expand further, serving as a key ingredient in the development of innovative products across various industries.

## Segmental Insights

### Type Insights

Within the butyric acid market, the Synthetic segment currently holds a dominant position in India. The rise of synthetic butyric acid can be attributed to its increasing utilization as a raw

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material across various sectors. Its cost-effectiveness and efficient fermentation technique have propelled its production and demand.

On the other hand, the non-synthetic butyric acid segment is expected to gain prominence in the market. This shift is driven by consumer preferences for natural ingredients in food and beverage products, coupled with increasing awareness of the health benefits associated with natural butyric acid. The demand for non-synthetic butyric acid is fueled by its perceived purity, organic origin, and potential positive impact on overall well-being.

#### Application Insights

The Animal Feed segment is anticipated to witness rapid growth during the forecast period. Butyric acid, as a short-chain fatty acid, is well-regarded for its crucial role in the mucosal immune response. It exhibits anti-inflammatory properties and influences gene expression and protein synthesis. Moreover, it plays a significant role in the maturation, proliferation, and differentiation of various mucosal cells. The rising incidence of animal diseases has driven increased global demand for butyric acid products, positively impacting overall market growth.

Notably, major food corporations like KFC and McDonald's are actively incorporating low-cost meat options into their menus, especially in emerging economies like China, India, and Indonesia. This strategic move is driven by factors such as rapid urbanization, increasing disposable incomes, and high meat consumption in these countries, all contributing to growing demand and market expansion.

#### Regional Insights

West India emerged as the dominant player in the India Butyric Acid Market in 2022, holding the largest market share in terms of both value and volume. West India, particularly the states of Gujarat and Maharashtra, boasts a highly developed industrial infrastructure encompassing various sectors, including chemical industries, pharmaceutical companies, and diverse manufacturing facilities. This robust infrastructure provides an exceptionally conducive environment for efficient butyric acid production and distribution.

Situated in strategic proximity to major ports such as Mumbai, Kandla, and Mundra, West India enjoys unparalleled advantages in terms of seamless import and export of raw materials and finished products. This excellent port connectivity empowers manufacturers in the region to effortlessly engage in international trade, thus bolstering their global presence.

Furthermore, the region encompasses a vast spectrum of industries that heavily rely on butyric acid for their operational processes. These industries span pharmaceuticals, chemicals, food and beverages, agriculture, and animal feed, among others. The ever-growing demand from these diverse sectors serves as a major driving force behind the continuous production and consumption of butyric acid in West India.

Overall, with its well-established industrial infrastructure, strategic location, and a myriad of industries utilizing butyric acid, West India stands as a thriving hub for the production and distribution of this valuable compound.

#### Key Market Players

Ennore India Chemicals

Otto Chemie Pvt. Ltd.

Vizag Chemicals International

QUALIKEMS Fine Chem Pvt. Ltd.

Peekay Agencies Pvt. Ltd.

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## Report Scope:

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

□□ India Butyric Acid Market, By Type:

o□ Synthetic

o□ Non-Synthetic

□□ India Butyric Acid Market, By End Use:

o□ Animal Feed

o□ Chemical Intermediates

o□ Pharmaceuticals

o□ Food & Beverage

o□ Others

□□ India Butyric Acid Market, By Distribution Channel:

o□ Direct Sales

o□ Direct Import

o□ Distributors/Suppliers/Traders

□□ India Butyric Acid Market, By Region:

o□ North India

o□ East India

o□ West India

o□ South India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Butyric Acid Market.

Available Customizations:

India Butyric Acid Market report with the given market data, Tech Sci 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).

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