

Arachidonic Acid Market Report by Source (Animal, Plant), Form (Dry, Liquid), End User (Food and Beverage, Pharmaceuticals, and Others), and Region 2025-2033

Market Report | 2025-09-01 | 148 pages | IMARC Group

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Report description:

The global arachidonic acid market size reached USD 284.8 Billion in 2024. Looking forward, IMARC Group expects the market to reach USD 437.6 Billion by 2033, exhibiting a growth rate (CAGR) of 4.64% during 2025-2033. The growing focus of individuals on adopting functional foods to support heart and immune system health is propelling the market growth.

Arachidonic Acid Market Analysis:

- Major Market Drivers: The expanding demand for premium-quality oil-based nutritional supplements containing essential fatty acids to meet the daily nutritional requirements and lead a healthy lifestyle is propelling the market.
- Key Market Trends: Extensive investments in the field of biotechnology are acting as significant growth-inducing factors.
- Competitive Landscape: Some of the major market companies include BASF SE, Bio-Techne Corporation, Cargill Incorporated, Cayman Chemical Company, Croda International Plc, Kingdomway Nutrition Inc., Koninklijke DSM N.V., and Merck KGaA, among many others.
- Geographical Trends: In Asia Pacific, there is rising demand due to infant nutrition needs. In addition, the market in North America and Europe is also bolstering, owing to strong interest in dietary supplements and pharmaceuticals. Besides this, Latin America sees steady growth, while the Middle East and Africa focus on expanding healthcare applications.
- Challenges and Opportunities: The lack of consumer awareness towards arachidonic acid's health benefits limits the market growth. However, targeted education and marketing campaigns will continue to elevate the acid market's recent price in the coming years.

Arachidonic Acid Market Trends:

Rising Demand for Infant Nutrition Products

Arachidonic acid is important for early brain development and overall health in infants. Manufacturers are focusing on

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incorporating arachidonic acid to meet the increasing consumer demand for quality infant nutrition as awareness grows regarding the importance of essential fatty acids in infant formulas and nutritional supplements. For instance, in May 2024, the FDA expanded the label for Baxter's lipid injectable emulsion to include preterm and term neonates. This emulsion, rich in arachidonic acid, addresses essential fatty acid deficiencies in pediatric patients, enhancing nutritional options in parenteral nutrition for vulnerable populations. This is elevating the arachidonic acid market revenue.

Increased Awareness of Mental Health Benefits

Emerging studies suggest that arachidonic acid is essential for cognitive function and emotional stability. In addition, the growing understanding of its influence on mood regulation is prompting consumers to consider dietary sources and supplements, thereby leading to heightened interest in arachidonic acid as a support for mental health, which is escalating the arachidonic acid market share. For instance, in March 2024, according to a report by medical news today, dietary arachidonic acid from seafood, eggs, and meat aids in lowering the risk of bipolar disorder. The study suggests that increasing arachidonic acid levels could enhance mental health, thereby emphasizing the potential benefits of targeted dietary interventions.

Growing Interest in Functional Foods and Supplements

The shift towards health-conscious eating has spurred demand for functional foods that provide specific health benefits. Arachidonic acid's role in various physiological functions positions it as a valuable ingredient in dietary supplements and health products, thereby catering to consumers seeking to enhance their nutritional intake for improved health. For instance, in April 2024, a study published by biorvix highlighted the role of arachidonic acid in brain development. The study found that deficiency in LPLAT11/MBOAT7, responsible for incorporating arachidonic acid into phosphatidylinositol, leads to cortical atrophy, affecting neurogenesis and radial glial cell integrity in the developing neocortex.

Global Arachidonic Acid Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with the arachidonic acid market forecast at the global, regional, and country levels for 2025-2033. Our report has categorized the market based on source, form, and end user.

Breakup by Source:

- Animal
- Plant

The report has provided a detailed breakup and analysis of the market based on the source. This includes animal and plant. According to the arachidonic acid market overview, arachidonic acid is primarily found in animal sources like meat and eggs, while plant-based alternatives require extraction from algae and other sources. Plant-based ARA has seen rising demand due to the growing consumer preference for vegetarian and sustainable products, making up over 50% of the market share in recent years.

Breakup by Form:

- Dry
- Liquid

The report has provided a detailed breakup and analysis of the market based on the form. This includes dry and liquid. According to arachidonic acid market outlook, arachidonic acid is available in both dry and liquid forms. For instance, liquid arachidonic acid is used in dietary supplements, while the dry form is commonly incorporated into powdered infant formula for easier blending and stability.

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Breakup by End User:

- Food and Beverage
- Pharmaceuticals
- Others

The report has provided a detailed breakup and analysis of the market based on the end user. This includes food and beverage, pharmaceuticals, and others.

Arachidonic acid is used in food and beverages, such as infant formulas for brain development. In pharmaceuticals, it aids anti-inflammatory drugs. Meanwhile, other uses include sports nutrition products, including supplements for muscle recovery and performance enhancement. This is escalating the arachidonic acid market demand.

Breakup by Region:

- North America
 - o□ United States
 - o□ Canada
- Asia-Pacific
 - o□ China
 - o□ Japan
 - o□ India
 - o□ South Korea
 - o□ Australia
 - o□ Indonesia
 - o□ Others
- Europe
 - o□ Germany
 - o□ France
 - o□ United Kingdom
 - o□ Italy
 - o□ Spain
 - o□ Russia
 - o□ Others
- Latin America
 - o□ Brazil
 - o□ Mexico
 - o□ Others
- Middle East and Africa

The arachidonic acid market statistics report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa.

In Asia Pacific, arachidonic acid is commonly used in infant formula, reflecting the region's growing focus on child nutrition. In addition, North America and Europe integrate it into dietary supplements for improved brain and muscle health, with products like brain-boosting supplements being popular. The arachidonic acid market recent opportunities include its expanding use in functional foods in Latin America, particularly for heart health. At the same time, the Middle East and Africa are slowly elevating their applications, especially in pharmaceuticals aimed at reducing inflammation, such as anti-inflammatory creams and treatments.

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Competitive Landscape:

The market research report has provided a comprehensive analysis of the competitive landscape. Detailed profiles of all major arachidonic acid market companies have also been provided. Some of the key players in the market include:

- [] BASF SE
- [] Bio-Techne Corporation
- [] Cargill Incorporated
- [] Cayman Chemical Company
- [] Croda International Plc
- [] Kingdomway Nutrition Inc.
- [] Koninklijke DSM N.V.
- [] Merck KGaA.

Key Questions Answered in This Report:

- [] How has the global arachidonic acid market performed so far, and how will it perform in the coming years?
- [] What has been the impact of COVID-19 on the global arachidonic acid market growth?
- [] What are the key regional markets?
- [] What is the breakup of the market based on the source?
- [] What is the breakup of the market based on the form?
- [] What is the breakup of the market based on the end user?
- [] What are the various stages in the value chain of the industry?
- [] What are the key driving factors and challenges in the industry?
- [] What is the structure of the global arachidonic acid market, and who are the key players?
- [] What is the degree of competition in the industry?

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