

Omega-3 Fatty Acid for Aquaculture Industry Trends, Forecast & Players 2025-2032

The Omega-3 Fatty Acids in Aquaculture Market is expanding rapidly due to rising demand for healthy, nutrient-rich seafood.

AUSTIN, TX, UNITED STATES, August 5, 2025 /EINPresswire.com/ -- Market Overview

The [Omega-3 Fatty Acid for Aquaculture Market](#) is experiencing

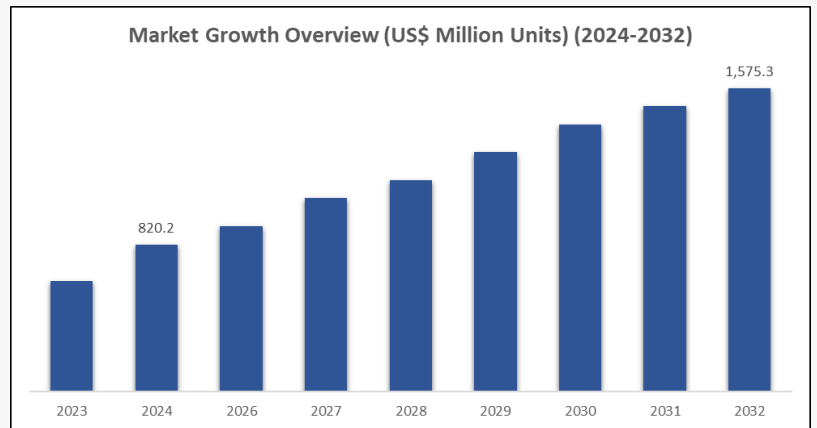
strong global growth, driven by the rising importance of high-quality feed

in aquaculture. Omega-3 fatty acids particularly EPA and DHA play a crucial role in improving fish health, growth performance, and the nutritional quality of farmed seafood. As global fish consumption increases, the aquaculture sector is shifting towards sustainable and efficient feed ingredients, with omega-3s at the forefront of this transformation.

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In the U.S., growing demand for omega-3-rich seafood and sustainable fish farming is driving the aquaculture market past USD 1,575.3 million by 2032.”

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Omega-3 Fatty Acid for Aquaculture Market

Market Size and Growth:

In 2024, the global market for omega-3 used in fish farming was worth about \$820.2 million, showing how important it is for healthy fish growth. It's expected to grow steadily and reach about \$1,575.3 million by 2032, expanding at an average rate of 8.5% each year from 2025 to 2032.

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Key Market Trends

Growing shift toward algae-based omega-3s to reduce dependence on fish oil.

Increased use of omega-3s in premium and sustainable aquafeed products.

Market Drivers and Opportunities

Key growth drivers include the rising demand for high-quality aquafeed, the growing focus on sustainable fish farming practices, and advancements in algae-based and plant-based omega-3 production. Regulatory bodies are also encouraging the use of nutrient-rich feed to maintain seafood safety and environmental standards.

Key growth drivers include:

Increasing demand for high-nutrient aquafeed to support fish health and yield

Rising concerns over overfishing and pressure to find fish oil alternatives

Advancements in microalgae and fermentation-based omega-3 production

Regulatory support for sustainable and traceable feed ingredients

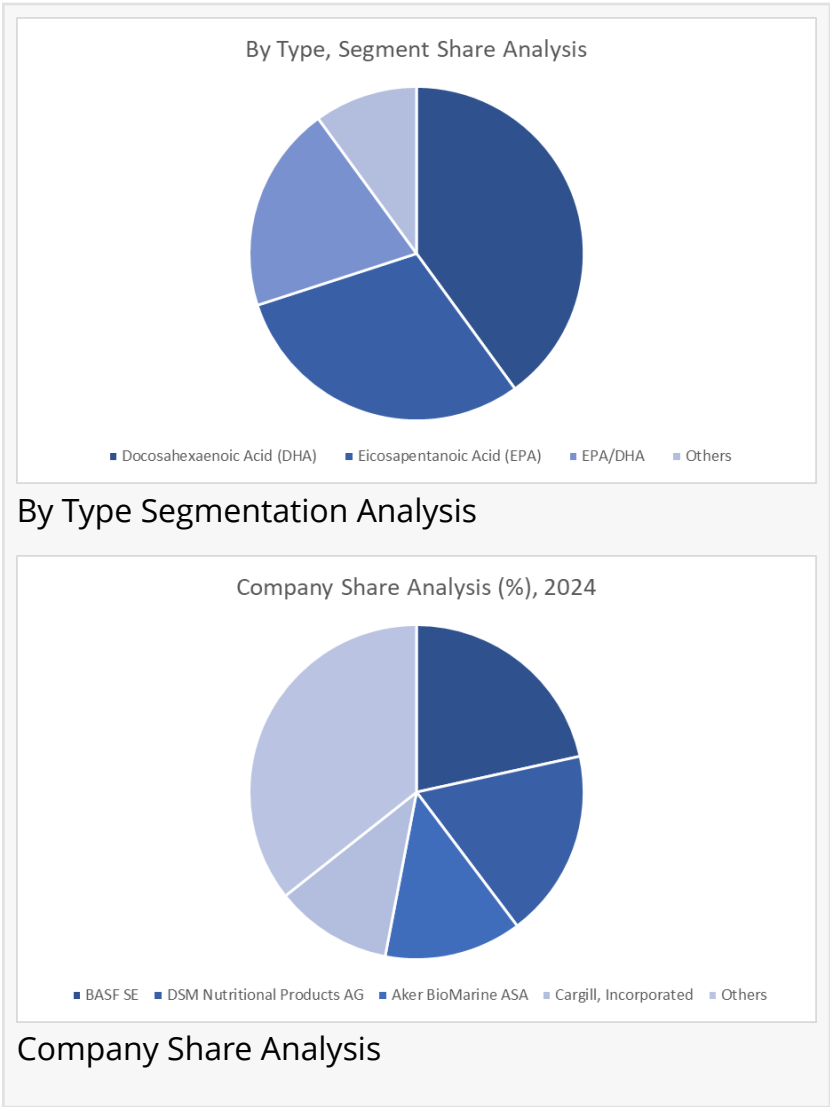
Challenges and Restraints

High production costs of alternative omega-3 sources like microalgae.

Supply chain disruptions and limited scalability in remote aquaculture sites.

Geographical Share

Asia-Pacific holds the largest share of the omega-3 fatty acid for aquaculture market, driven by strong aquaculture output in China, India, and Southeast Asia. North America is emerging as a key market due to rising demand for omega-3-rich seafood and increased R&D in alternative omega-3 sources. Europe, with its strict sustainability standards, also shows significant market potential.



Key Players in the Market

BASF SE
FMC Corporation
DSM Nutritional Products AG
Croda International Plc
Omega Protein Corporation
Aker BioMarine ASA
POLARIS
Cargill, Incorporated
Arista Industries, Inc.
Seadragon

These key players are actively investing in algae-derived omega-3 technologies and forming strategic alliances to scale production and supply to global aquafeed manufacturers.

Market Segmentation:

By Type: (Docosahexaenoic Acid (DHA), Eicosapentanoic Acid (EPA), EPA/DHA, Others)

By Form: (Ethyl Esters, Triglycerides)

By Region: (North America, Latin America, Europe, Asia Pacific, Middle East, and Africa)

Applications of Omega-3s in Aquaculture

It supports better growth, stronger disease resistance, and higher survival in raised fish, which matters a lot to aquaculture producers.

Improves nutritional quality of farmed fish for human consumption.

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Recent Developments

United States:

In May 2025, a U.S. biotech firm launched a large-scale fermentation plant to produce algae-based omega-3 for aquafeed applications.

In August 2024, a major feed producer partnered with a seafood company to pilot genetically

engineered canola-derived omega-3 in salmon farming.

Japan:

In February 2025, a Japanese research institute developed a new strain of microalgae with higher DHA yield for aquaculture use.

In October 2024, a Japanese aquafeed company introduced a new omega-3-rich feed blend, aiming to reduce reliance on traditional fish oil imports.

Conclusion

The Omega-3 Fatty Acid for Aquaculture Market is set to grow steadily as the aquaculture industry adopts more sustainable, high-performance feed solutions. With technological advancements and a global shift toward responsible fish farming, omega-3 supplementation is becoming a vital component of the aquafeed industry. Companies investing in innovation and sustainability are expected to lead the way in shaping the future of aquaculture nutrition.

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