

# Nano Fertilizers Market 2025 Business Outlook and To Witness Substantial Growth

*Nano fertilizers offer controlled release and better absorption, minimizing nutrient loss and environmental impact.*

WILMINGTON, DE, UNITED STATES, July 14, 2025 /EINPresswire.com/ -- Allied Market Research recently published a report titled, "[Nano Fertilizers Market](#) by Raw Material (Nitrogen, Silver, Carbon, Zinc, and Others), Method (Spray or Foliar, and Soil Treated), Application Area (Cereals and Grains, Oilseeds and Pulses, Fruits and Vegetables, and Others): Global Opportunity Analysis and Industry Forecast, 2024–2033."

According to the report, the global nano fertilizers market was valued at \$2.3 billion in 2023 and is projected to reach \$8.7 billion by 2033, expanding at a CAGR of 14.3% during the forecast period.



Nano Fertilizers Market 2025

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<https://www.alliedmarketresearch.com/request-sample/A141787>

## Key Market Drivers

- Rising demand for agricultural productivity: Growing global population and shrinking arable land drive the need for highly efficient fertilizers.
- Increased nutrient efficiency in farming: Nano fertilizers offer controlled release and better absorption, minimizing nutrient loss and environmental impact.

## Restraints:

Limited awareness and technical know-how: The adoption of nano fertilizers is currently hindered by insufficient knowledge and training among farmers, especially in emerging economies.

## Growth Opportunities:

Emerging demand for organic and precision agriculture: The integration of nanotechnology aligns with sustainable farming practices and data-driven crop management, opening new growth avenues.

## Segment Highlights

### By Raw Material: Nitrogen Leads the Market:

The nitrogen segment dominated in 2023. Nano nitrogen fertilizers are developed using conventional sources like urea and ammonium nitrate, processed into nano-sized particles using encapsulation and coating technologies. These enable slow and targeted nutrient release, improving nitrogen use efficiency and reducing input costs and environmental damage.

### By Method: Soil-Treated Fertilizers in Demand:

The soil-treated method was the leading segment in 2023. Nano fertilizers improve root development and microbial activity in the soil, offering targeted nutrient delivery. Their high surface-area-to-volume ratio enhances nutrient retention and absorption, boosting crop yields with lower application rates.

### By Application Area: Cereals and Grains Dominate:

The cereals and grains segment accounted for the highest market share in 2023. Nano fertilizers enhance grain quality, chlorophyll content, and nutrient uptake, particularly in nitrogen and zinc-deficient crops. Their use supports sustainable and climate-resilient agriculture by improving productivity while reducing environmental impact.

## Regional Insights:-

### Asia-Pacific Held the Largest Market Share in 2023:

The Asia-Pacific region led the global nano fertilizers market, driven by strong adoption in countries like India, China, and Japan. In India, initiatives by organizations such as IFFCO are promoting the use of nano urea to enhance nitrogen use efficiency and reduce overreliance on chemical fertilizers. Similarly, China is integrating nanotechnology into precision agriculture to support sustainable farming goals.

## Leading Market Players:

- Indian Farmers Fertiliser Cooperative Limited (IFFCO)
- Indogulf BioAg LLC

- Nanotech-Agri
- Ray Nano Science & Research Center
- Kanak Biotech
- EuroChem Group AG
- Lazuriton Nano Biotechnology Co., Ltd.
- Geolife Agritech India Pvt. Ltd.
- Coromandel International Ltd.
- Aqua Yield Operations, LLC

These players are actively pursuing strategies such as product innovation, regional expansion, strategic partnerships, and joint ventures to strengthen their position in the growing nano fertilizers landscape.

For more information on the Nano Fertilizers Market, visit our website:

<https://www.alliedmarketresearch.com/nano-fertilizers-market/purchase-options>

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