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Chemical Fertilizers Market Forecasts to 2032 – Global Analysis By Fertilizer Type (Nitrogenous Fertilizers, Phosphate Fertilizers, Potash Fertilizers and Compound Fertilizers), Crop Type, Form, Distribution Channel, Application and By Geography

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Abstracts

According to Stratistics MRC, the Global Chemical Fertilizers Market is accounted for $220.08 billion in 2025 and is expected to reach $365.13 billion by 2032 growing at a CAGR of 7.5% during the forecast period. Chemical fertilizers are man-made products designed to provide vital nutrients such as nitrogen, phosphorus, and potassium to plants, promoting rapid and vigorous growth. In modern farming, they are highly valued for their ability to enrich soil instantly and enhance crop production significantly. Compared to organic fertilizers, they are more efficient, require less effort, and show quicker results. Yet, their overuse can damage soil health, lower long-term fertility, and pollute water sources. They may also disrupt soil microorganisms and upset environmental stability. Thus, chemical fertilizers are crucial for ensuring sufficient food supply, but their application should be controlled and combined with eco-friendly methods.

According to the International Fertilizer Association (IFA), Global fertilizer demand is projected to reach 200 million tonnes of nutrients by 2026, driven by population growth, dietary shifts, and the need to improve agricultural productivity.

Market Dynamics:

Driver:

Rising global food demand

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One of the strongest factors fueling the chemical fertilizers market is the surge in worldwide food requirements caused by population expansion. With more people to feed, farmers are under pressure to achieve higher production levels and guarantee food supply. Chemical fertilizers play a vital role here, offering critical nutrients that speed up plant growth and increase harvest volumes. Because cultivable land is shrinking due to urbanization, the use of fertilizers helps maximize yield from limited farmland. Their quick action and efficiency make them indispensable in modern farming. Therefore, growing global food needs directly contribute to the rising demand for chemical fertilizers.

Restraint:

Rising costs and dependency

Increased reliance on chemical fertilizers is limiting the market's long-term prospects. Prolonged use depletes natural soil fertility, compelling farmers to apply higher amounts to sustain crop output. This dependency drives up production costs, posing challenges for small-scale farmers with limited resources. Additionally, volatility in raw material prices, especially natural gas, makes fertilizers more expensive and less accessible. Such rising costs create affordability issues in many developing nations, reducing overall demand. Farmers are gradually turning toward cost-effective and sustainable alternatives to ease the financial load. Consequently, the combination of rising expenses and dependency acts as a strong restraint for market expansion.

Opportunity:

Technological innovations in fertilizers

Innovation in fertilizer technology is creating strong opportunities for the chemical fertilizers market. The introduction of slow-release, water-soluble, and bio-fortified fertilizers enables better nutrient absorption and reduces losses. These advanced products appeal to farmers seeking efficiency and sustainability. When paired with precision farming practices, they maximize crop yields while minimizing environmental impacts. Global companies that prioritize research and eco-friendly innovations are well-positioned to capture greater market share. Such advancements not only enhance farm productivity but also address growing sustainability concerns. Therefore, technological improvements in fertilizer design open significant opportunities for long-term growth and profitability across global agricultural markets.

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Threat:

Competition from organic alternatives

Rising interest in organic farming presents a growing threat to the chemical fertilizers industry. With consumers demanding cleaner and safer food, organic produce has gained global momentum. This trend decreases reliance on chemical inputs, since organic cultivation primarily uses compost, manures, and biofertilizers. Additionally, many governments actively promote organic farming with incentives, certifications, and awareness programs, making it an appealing option for farmers. The emphasis on sustainability and health-conscious diets further accelerates this shift. As a result, chemical fertilizers face stiff competition from natural alternatives, forcing the industry to adapt through innovation or risk losing relevance in an evolving agricultural landscape.

Covid-19 Impact:

Covid-19 strongly influenced the chemical fertilizers market, leading to disruptions as well as new realizations about agriculture's importance. Global lockdowns interrupted supply chains, delaying fertilizer manufacturing and delivery. Many farmers struggled to secure adequate supplies, which impacted crop production cycles. Increased fuel costs and shortages of raw materials further drove up fertilizer prices, creating affordability issues in low-income regions. Despite these obstacles, the crisis emphasized the role of fertilizers in maintaining food security. As a result, governments prioritized agricultural inputs during the pandemic. Although market growth slowed in the short term, the essential demand for fertilizers supported recovery in the post-Covid era.

The nitrogenous fertilizers segment is expected to be the largest during the forecast period

The nitrogenous fertilizers segment is expected to account for the largest market share during the forecast period, as they are fundamental to agricultural productivity. Nitrogen is vital for plant development because it enhances chlorophyll production, facilitates photosynthesis, and aids in protein building. High-demand crops like wheat, maize, and rice depend heavily on nitrogen inputs, driving widespread use of urea, ammonium nitrate, and other nitrogen-based products. Farmers prefer these fertilizers for their immediate effectiveness and ability to boost yields quickly. Increasing food requirements and decreasing arable land further amplify their importance. Consequently, nitrogenous fertilizers remain the most dominant segment, maintaining

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leadership in the global chemical fertilizers market.

The fruits and vegetables segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the fruits and vegetables segment is predicted to witness the highest growth rate. Increasing health awareness and the popularity of plant-rich diets are driving higher global consumption of fresh produce. These crops demand careful nutrient management, making fertilizers essential for improving productivity, flavor, and shelf stability. Rising incomes and rapid urbanization are also boosting demand, alongside growth in international trade of horticultural products. To meet these needs, farmers rely on advanced fertilizers tailored for fruit and vegetable cultivation. As consumer preferences continue to diversify, this segment is set to expand rapidly, surpassing others in growth rate.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share. This leadership stems from its extensive farmlands and the agricultural dependence of major countries like China and India. With food demand climbing alongside population growth, fertilizers play a crucial role in boosting crop yields and ensuring food supply. Limited cultivable land has made fertilizers vital for intensive farming in the region. Strong government support, including subsidies and farmer education, further drives their use. Moreover, exports of crops such as rice, cereals, and vegetables add to demand. Thus, Asia-Pacific maintains its position as the leading fertilizer market.

Region with highest CAGR:

Over the forecast period, the South America region is anticipated to exhibit the highest CAGR. This growth is largely driven by Brazil and Argentina, where crops like soybeans, corn, and sugarcane dominate global exports. These crops demand intensive fertilizer use, encouraging widespread adoption. Expanding agricultural land, modernization of farming practices and rising global food demand strengthen the trend. Additionally, government support, private investments, and enhanced logistics are accelerating fertilizer penetration across the region. With its expanding role in global food supply chains, Latin America is set to remain the fastest-growing region in the fertilizer market.

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Key players in the market

Some of the key players in Chemical Fertilizers Market include Coromandel International, Chambal Fertilisers, Gujarat State Fertilizers & Chemicals (GSFC), Rashtriya Chemicals and Fertilizers (RCF), Deepak Fertilisers, Zuari Agro Chemicals, National Fertilizers Ltd (NFL), Fertilisers and Chemicals Travancore (FACT), Gujarat Narmada Valley Fertilisers & Chemicals (GNFC), Nagarjuna Fertilisers, ICL Group Ltd., OCI N.V., CVR Partners, Tata Chemicals and Yara International.

Key Developments:

In July 2025, Deepak Fertilisers and Petrochemicals Corporation’s (DFPCL) group company, Performance Chemiserve, has signed a 5.5-year Liquefied Natural Gas regasification agreement with Petronet LNG (PLL). DFPCL Group will be importing the LNG. DFPCL has already signed an LNG sale and purchase agreement with Equinor, a global energy company based in Norway.

In March 2025, Coromandel International Limited announced the signing of definitive agreements to acquire majority stake in NACL Industries Limited (NACL). NACL is an India based Crop Protection player having strong branded formulation business in domestic markets, exports Technicals in key global geographies and has presence in contract manufacturing operations with global multinational agrochemical companies.

In January 2025, ICL announced it has signed a joint venture (JV) agreement with Shenzhen Dynanonic Co., Ltd. to establish lithium iron phosphate (LFP) cathode active material (CAM) production in Europe, with an initial investment of approximately €285 million. A new facility at ICL's Sallent, Spain, site is currently in planning stages and will substantially expand the company’s battery materials business.

Fertilizer Types Covered:

- Nitrogenous Fertilizers
- Phosphate Fertilizers
- Potash Fertilizers
- Compound Fertilizers

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Crop Types Covered:

- Cereals & Grains
- Oilseeds & Pulses
- Fruits & Vegetables
- Turf & Ornamentals

Forms Covered:

- Solid Fertilizers
- Liquid Fertilizers
- Gaseous Fertilizers

Distribution Channels Covered:

- Direct-to-Farmer
- Agri-retailers & Distributors
- E-commerce Platforms

Applications Covered:

- Soil Application
- Foliar Spray
- Fertigation
- Aerial Application

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Regions Covered:

- North America
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  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand
  - South Korea
  - Rest of Asia Pacific

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Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
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Contents

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11 KEY DEVELOPMENTS

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12 COMPANY PROFILING

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List Of Tables

LIST OF TABLES

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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