

**Nitrogenous Fertilizers Market Report by Type (Urea, Ammonium Nitrate, Ammonium Sulfate, Calcium Ammonium Nitrate (CAN), and Others), Crop Type (Cereals and Grains, Oilseeds and Pulses, Fruits and Vegetables, and Others), Form (Liquid, Dry, and Others), Mode of Application (Soil, Foliar, Fertigation, and Others), and Region 2025-2033**

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**Report description:**

The global nitrogenous fertilizers market size was valued at USD 74.67 Billion in 2024. Looking forward, IMARC Group estimates the market to reach USD 103.41 Billion by 2033, exhibiting a CAGR of 3.65% from 2025-2033. Asia Pacific currently dominates the nitrogenous fertilizers market share by holding over 45.0% in 2024. The market in the region is driven by high agricultural activity, increasing food demand, rising government subsidies, and the widespread adoption of urea and ammonia-based fertilizers.

Nitrogenous fertilizers are essential inorganic compounds widely employed to enhance crop growth by influencing characteristics like texture, color, and quality. Nitrogen, a fundamental component of these fertilizers, is a key constituent for protoplasm and plays a vital role in photosynthesis. These fertilizers typically comprise varying proportions of ammonium nitrate, ammonium sulfate, calcium ammonium nitrate, urea, and other compounds. Often combined with animal manure, they are meticulously applied in precise quantities to promote benefits such as increased flower differentiation, accelerated shoot growth, the formation of robust flower buds, and the overall enhancement of fruit quality. These fertilizers are indispensable tools for modern agriculture, assisting farmers in optimizing crop yields and ensuring the production of healthier, more robust crops that meet the demands of a growing global population. Their strategic application in farming practices is a cornerstone of sustainable and efficient agricultural production.

The global market is majorly driven by the rising demand for food production. With the world's population continually increasing,

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there is a growing need for more efficient and productive agriculture. Nitrogenous fertilizers, rich in nitrogen content, are pivotal in enhancing crop growth and overall yield, making them an indispensable component of modern farming practices. Furthermore, changing dietary preferences and urbanization amplify the demand for diverse and higher-value crops. These fertilizers help achieve the desired crop quality, texture, and appearance, making them particularly crucial for producing fruits, vegetables, and cash crops that cater to evolving consumer preferences. Climate change and its associated challenges are another driving force. Erratic weather patterns, increased instances of drought, and unpredictable rainfall pose significant threats to crop production. These fertilizers can help mitigate some risks by promoting healthy and robust plant growth, making crops more resilient to adverse weather conditions. Besides, the adoption of advanced agricultural technologies and precision farming practices is fueling market growth. Farmers increasingly use data-driven approaches to optimize fertilizer application, ensuring that nitrogenous fertilizers are used efficiently and environmentally responsible, reducing waste and environmental impact. Government support and initiatives aimed at boosting agricultural productivity also contribute to the market's expansion. Subsidies, incentives, and policies that encourage using fertilizers are prevalent in many countries, further propelling the industry's growth.

#### Nitrogenous Fertilizers Market Trends/Drivers:

##### Decreasing arable land across the globe

The decreasing availability of arable land worldwide is creating a positive outlook for the market. As urbanization, industrialization, and infrastructure development continue to encroach upon fertile lands, the agricultural sector faces a pressing challenge: how to produce more food on limited acreage. These fertilizers address this challenge by significantly enhancing crop yields and optimizing land use. They facilitate higher crop densities and improve the productivity of existing arable lands. With the world's population steadily increasing, the demand for food production has accelerated, and nitrogenous fertilizers are instrumental in meeting this demand. Furthermore, these fertilizers play a crucial role in soil fertility restoration. As arable land faces continuous cultivation, it tends to lose its nutrient content. They replenish essential nutrients, ensuring that even depleted soils can support productive crops.

##### Increasing demand for these fertilizers for improved soil fertility

The increasing demand for these fertilizers to enhance soil fertility is catalyzing the market. Soil fertility is a cornerstone of successful agriculture, and nitrogen is vital in maintaining and improving it. Farmers and agricultural professionals recognize the importance of nitrogen in promoting robust plant growth and optimizing crop yields. These fertilizers provide a readily available source of nitrogen that enriches the soil, facilitating the growth of healthy and productive crops. They play a crucial role in replenishing nitrogen levels in soil that can be depleted due to continuous cultivation. Moreover, the need to meet rising global food demands and the growing emphasis on sustainable agriculture drive the demand for these fertilizers. They boost crop production and contribute to maintaining agricultural land's long-term health and productivity.

##### Escalating demand for grain-based biofuels

The escalating demand for grain-based biofuels is fueling the market growth. As the world seeks cleaner and more sustainable energy alternatives, biofuels derived from grains like corn and wheat have gained prominence. This increased demand for grain-based biofuels directly correlates with the need for higher crop yields, which, in turn, fuels the demand for these fertilizers. Grains used in biofuel production require intensive cultivation to meet the energy demands of a growing population. Nitrogenous fertilizers play a crucial role in this process by enhancing the nutrient content of the soil, optimizing plant growth, and ultimately increasing grain production. Moreover, government policies and environmental regulations influence the biofuel industry's expansion to reduce greenhouse gas emissions. This further bolsters the need for robust crop yields and subsequently drives the adoption of these fertilizers to achieve the required grain production levels.

#### Nitrogenous Fertilizers Industry Segmentation:

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IMARC Group provides an analysis of the key trends in each segment of the global nitrogenous fertilizers market, along with forecast at the global, regional, and country levels from 2025-2033. The market has been categorized based on type, crop type, form, and mode of application.

#### Breakup by Type:

- Urea
- Ammonium Nitrate
- Ammonium Sulfate
- Calcium Ammonium Nitrate (CAN)
- Others

Urea dominates the market

The report has provided a detailed breakup and analysis of the market based on the type. This includes urea, ammonium nitrate, ammonium sulfate, calcium ammonium nitrate (CAN), and others. According to the report, urea represented the largest segment.

Urea, one of the most widely used nitrogenous fertilizers, is pivotal in modern agriculture. It is highly versatile and applicable to a broad spectrum of crops. Its nitrogen content is released gradually, making it suitable for short-term and long-term crop requirements. This versatility has led to widespread adoption across various agricultural practices, contributing significantly to market expansion. Moreover, its cost-effectiveness is a driving factor. It offers an efficient and economical means of providing essential nitrogen nutrients to plants. This affordability appeals to multiple farmers, from smallholders to large-scale commercial operations.

Furthermore, the growing global population and the need for increased food production amplify the demand for nitrogenous fertilizers like urea. Meeting the rising demand for food necessitates optimizing crop yields, and urea plays a vital role in achieving this objective. Additionally, the sustainable application of urea, when coupled with precision farming practices, mitigates concerns related to environmental impact. The responsible use of urea, guided by modern agricultural techniques, aligns with sustainability goals and reinforces its position as a driving force.

#### Breakup by Crop Type:

- Cereals and Grains
- Oilseeds and Pulses
- Fruits and Vegetables
- Others

Cereals and grains dominate the market

The report has provided a detailed breakup and analysis of the market based on the crop type. This includes cereals & grains, oilseeds & pulses, fruits & vegetables, and others. According to the report, cereals and grains represented the largest segment.

Cereals and grains are fundamental staples of global food production, and nitrogenous fertilizers are indispensable in maximizing their yield and quality. As the world's population continues to rise, there is a pressing need to enhance the production of these crops to meet food and feed demands. Nitrogenous fertilizers provide the necessary nitrogen nutrients for the vigorous growth and yield of cereals and grains, making them indispensable for global food security. Moreover, these crops are cultivated on extensive acreages worldwide, making them a significant consumer of nitrogenous fertilizers. Their widespread cultivation

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amplifies the demand for these fertilizers and drives market growth.

Furthermore, the versatility of these fertilizers in optimizing crop yields aligns perfectly with the agronomic requirements of cereals and grains. These fertilizers directly contribute to increased cereal and grain production by promoting healthy vegetative growth and robust grain development. Additionally, the adoption of precision agriculture practices in cereals and grains cultivation further accentuates the importance of nitrogenous fertilizers. Farmers increasingly rely on data-driven approaches to optimize fertilizer application, ensuring efficient nutrient utilization and reduced environmental impact.

Breakup by Form:

- Liquid
- Dry
- Others

Liquid dominates the market

The report has provided a detailed breakup and analysis of the market based on the form. This includes liquid, dry, and others. According to the report, liquid represented the largest segment.

Liquid nitrogenous fertilizers are gaining prominence due to their unique advantages and versatility in modern agriculture. They are prized for their ease of application. They can be readily and uniformly applied through various irrigation systems, including drip and foliar applications, enhancing their efficiency. This ease of application is particularly valuable for large-scale and precision farming operations. Moreover, they offer rapid nutrient availability to plants. The liquid form allows quick absorption, promoting vigorous vegetative growth and crop development. This fast nutrient delivery is especially beneficial for crops with high nutrient demands during critical growth stages.

Furthermore, the controlled-release capabilities of some liquid nitrogenous fertilizers are driving their adoption. These formulations release nitrogen gradually over time, ensuring a sustained supply of nutrients to crops, reducing the need for multiple applications, and minimizing nutrient loss through leaching. Additionally, they are valued for their compatibility with other crop protection products. Farmers can conveniently mix liquid fertilizers with pesticides or herbicides, reducing the number of passes through the fields and saving time and resources.

Breakup by Mode of Application:

- Soil
- Foliar
- Fertigation
- Others

Soil dominates the market

The report has provided a detailed breakup and analysis of the market based on the mode of application. This includes soil, foliar, fertigation, and others. According to the report, soil represented the largest segment.

Soil application remains crucial for delivering essential nitrogen nutrients to crops and enhancing agricultural productivity. It is a traditional and widely adopted method in agriculture. Farmers across the globe rely on these fertilizers applied to the soil to enrich it with vital nutrients, particularly nitrogen. This conventional approach ensures crops receive nutrients from the ground up,

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promoting healthy root development and overall plant growth. Moreover, this application allows for precise nutrient management. Farmers can tailor the application based on soil nutrient profiles and crop requirements, ensuring optimal nutrient utilization. This precision aligns with modern farming practices and sustainability goals, reducing nutrient wastage and environmental impact.

Furthermore, the versatility of soil application accommodates a wide range of crops, from cereals and grains to fruits and vegetables. This adaptability makes it a preferred mode of application for various agricultural systems and crop types, further driving the demand for nitrogenous fertilizers. Additionally, it is compatible with various agricultural machinery and equipment, facilitating efficient and uniform fertilizer distribution across large agricultural areas. This machinery compatibility enhances the practicality of soil application in modern farming practices.

#### Breakup by Region:

- Asia Pacific
- North America
- Europe
- Middle East and Africa
- Latin America

Asia Pacific exhibits a clear dominance, accounting for the largest market share

The market research report has also provided a comprehensive analysis of all the major regional markets, which include Asia Pacific, North America, Europe, Middle East and Africa, and Latin America. According to the report, Asia Pacific accounted for the largest market share.

The Asia Pacific region is a substantial driving force behind the market growth, characterized by a combination of factors fueling its expansion. It hosts some of the world's most populous countries, including China and India. With a growing demand for food to feed their populations, these countries represent significant markets for agricultural production. Nitrogenous fertilizers are essential in achieving higher crop yields, making them indispensable for meeting the increasing food requirements of the region. Moreover, the diverse agricultural landscape, encompassing various crops from rice and wheat to fruits and vegetables, drives the demand for nitrogenous fertilizers. Different crops have varying nutrient requirements, and nitrogenous fertilizers offer a versatile solution to these diverse needs.

Furthermore, the adoption of modern farming practices and the incorporation of technology in agriculture are on the rise in the Asia Pacific. Precision agriculture and data-driven approaches emphasize optimizing nutrient management, making nitrogenous fertilizers crucial in this evolving landscape. Additionally, government initiatives and subsidies to support agricultural development in the region stimulate the demand for fertilizers, including nitrogenous varieties. These policies encourage sustainable farming practices and higher crop productivity. These factors collectively reinforce the region's pivotal role in ensuring food security and contributing to the global market.

#### Competitive Landscape:

Top companies are strengthening the market through a multifaceted approach that combines innovation, sustainability, and strategic partnerships. These industry leaders spearhead research and development efforts to create advanced fertilizer formulations. They invest in cutting-edge technologies and scientific expertise to develop nitrogenous fertilizers that are more efficient, environmentally friendly, and tailored to meet specific crop and soil needs. These innovations enhance crop yields and address environmental concerns such as nutrient runoff. Sustainability is a core focus for top companies. They are actively engaged in sustainable farming practices and advocate responsible fertilizer use. By promoting precision agriculture and efficient nutrient management, they reduce the environmental impact of nitrogenous fertilizers. Strategic partnerships are another driving

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force. Leading companies collaborate with agricultural research institutions, governments, and international organizations to develop best practices and standards for fertilizer application. These partnerships foster knowledge exchange and promote responsible fertilizer usage globally. Moreover, top companies prioritize customer support and education. They offer training programs and resources to farmers, helping them maximize the benefits of these fertilizers while minimizing waste.

The report has provided a comprehensive analysis of the competitive landscape in the nitrogenous fertilizers market. Detailed profiles of all major companies have also been provided.

- Yara International ASA
- Bunge Limited
- CF Industries Holdings, Inc.
- PJSC TogliattiAzot
- Nutrien Limited
- EuroChem Group
- OCI N.V.
- URALCHEM JSC
- ICL Specialty Fertilizers
- SABIC
- Indian Farmers Fertiliser Cooperative Limited
- Coromandel International Limited
- Koch Industries
- Hellagrolip SA
- Sinofert Holdings Limited
- CVR Partners, LP

#### Key Questions Answered in This Report

- 1.How big is the nitrogenous fertilizers market?
- 2.What is the future outlook of nitrogenous fertilizers market?
- 3.What are the key factors driving the nitrogenous fertilizers market?
- 4.Which region accounts for the largest nitrogenous fertilizers market share?
- 5.Which are the leading companies in the global nitrogenous fertilizers market?

#### Table of Contents:

- 1 Preface
- 2 Scope and Methodology
  - 2.1 Objectives of the Study
  - 2.2 Stakeholders
  - 2.3 Data Sources
    - 2.3.1 Primary Sources
    - 2.3.2 Secondary Sources
  - 2.4 Market Estimation
    - 2.4.1 Bottom-Up Approach
    - 2.4.2 Top-Down Approach
  - 2.5 Forecasting Methodology
- 3 Executive Summary
- 4 Introduction

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- 4.1 Overview
- 4.2 Key Industry Trends
- 5 Global Nitrogenous Fertilizers Market
  - 5.1 Market Overview
  - 5.2 Market Performance
  - 5.3 Impact of COVID-19
  - 5.4 Market Breakup by Type
  - 5.5 Market Breakup by Crop Type
  - 5.6 Market Breakup by Form
  - 5.7 Market Breakup by Mode of Application
  - 5.8 Market Breakup by Region
  - 5.9 Market Forecast
- 6 SWOT Analysis
  - 6.1 Overview
  - 6.2 Strengths
  - 6.3 Weaknesses
  - 6.4 Opportunities
  - 6.5 Threats
- 7 Value Chain Analysis
- 8 Porter's Five Forces Analysis
  - 8.1 Overview
  - 8.2 Bargaining Power of Buyers
  - 8.3 Bargaining Power of Suppliers
  - 8.4 Degree of Competition
  - 8.5 Threat of New Entrants
  - 8.6 Threat of Substitutes
- 9 Market Breakup by Type
  - 9.1 Urea
    - 9.1.1 Market Trends
    - 9.1.2 Market Forecast
  - 9.2 Ammonium Nitrate
    - 9.2.1 Market Trends
    - 9.2.2 Market Forecast
  - 9.3 Ammonium Sulfate
    - 9.3.1 Market Trends
    - 9.3.2 Market Forecast
  - 9.4 Calcium Ammonium Nitrate (CAN)
    - 9.4.1 Market Trends
    - 9.4.2 Market Forecast
  - 9.5 Others
    - 9.5.1 Market Trends
    - 9.5.2 Market Forecast
- 10 Market Breakup by Crop Type
  - 10.1 Cereals & Grains
    - 10.1.1 Market Trends
    - 10.1.2 Market Forecast
  - 10.2 Oilseeds & Pulses

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- 10.2.1 Market Trends
- 10.2.2 Market Forecast
- 10.3 Fruits & Vegetables
  - 10.3.1 Market Trends
  - 10.3.2 Market Forecast
- 10.4 Others
  - 10.4.1 Market Trends
  - 10.4.2 Market Forecast
- 11 Market Breakup by Form
  - 11.1 Liquid
    - 11.1.1 Market Trends
    - 11.1.2 Market Forecast
  - 11.2 Dry
    - 11.2.1 Market Trends
    - 11.2.2 Market Forecast
  - 11.3 Others
    - 11.3.1 Market Trends
    - 11.3.2 Market Forecast
- 12 Market Breakup by Mode of Application
  - 12.1 Soil
    - 12.1.1 Market Trends
    - 12.1.2 Market Forecast
  - 12.2 Foliar
    - 12.2.1 Market Trends
    - 12.2.2 Market Forecast
  - 12.3 Fertigation
    - 12.3.1 Market Trends
    - 12.3.2 Market Forecast
  - 12.4 Others
    - 12.4.1 Market Trends
    - 12.4.2 Market Forecast
- 13 Market Breakup by Region
  - 13.1 Asia Pacific
    - 13.1.1 Market Trends
    - 13.1.2 Market Forecast
  - 13.2 North America
    - 13.2.1 Market Trends
    - 13.2.2 Market Forecast
  - 13.3 Europe
    - 13.3.1 Market Trends
    - 13.3.2 Market Forecast
  - 13.4 Middle East and Africa
    - 13.4.1 Market Trends
    - 13.4.2 Market Forecast
  - 13.5 Latin America
    - 13.5.1 Market Trends
    - 13.5.2 Market Forecast

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- 14 Price Analysis
- 15 Competitive Landscape
  - 15.1 Market Structure
  - 15.2 Key Players
  - 15.3 Profiles of Key Players
    - 15.3.1 Yara International ASA
    - 15.3.2 Bunge Limited
    - 15.3.3 CF Industries Holdings, Inc.
    - 15.3.4 PJSC TogliattiAzot
    - 15.3.5 Nutrien Limited
    - 15.3.6 EuroChem Group
    - 15.3.7 OCI N.V.
    - 15.3.8 URALCHEM JSC
    - 15.3.9 ICL Specialty Fertilizers
    - 15.3.10 SABIC
    - 15.3.11 Indian Farmers Fertiliser Cooperative Limited
    - 15.3.12 Coromandel International Limited
    - 15.3.13 Koch Industries
    - 15.3.14 Hellagrolip SA
    - 15.3.15 Sinofert Holdings Limited
    - 15.3.16 CVR Partners, LP

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