

# **Ammonia Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Form (Liquid, Gas, Powder), By End User (Agriculture, Textiles, Mining, Pharmaceutical, Refrigeration, Others), By Region and Competition, 2020-2030F**

<https://marketpublishers.com/r/A6060DA945FDEN.html>

Date: June 2025

Pages: 185

Price: US\$ 4,500.00 (Single User License)

ID: A6060DA945FDEN

## **Abstracts**

### Market Overview

The Global Ammonia Market was valued at USD 68.25 Billion in 2024 and is projected to reach USD 93.47 Billion by 2030, growing at a CAGR of 5.58%. Ammonia (NH<sub>3</sub>) is a colorless gas with a distinct, pungent odor, composed of nitrogen and hydrogen atoms. Its high solubility in water and reactivity makes it valuable across diverse industries. Among its most prominent uses is in the fertilizer sector, where ammonia is a critical nitrogen source essential for plant development and yield improvement. Beyond agriculture, ammonia finds widespread use in industrial refrigeration systems due to its exceptional thermal absorption capabilities, contributing to energy-efficient cooling solutions. It is also a key component in the production of industrial chemicals, explosives, and household cleaning agents. Furthermore, with rapid urbanization and infrastructure development, ammonia's application in construction materials is gaining prominence. It plays a central role in the production of resins, adhesives, laminates, and synthetic panels used in modern construction. This broad spectrum of applications continues to solidify ammonia's importance in both established and emerging sectors.

### Key Market Drivers

#### Growing Demand of Ammonia in Agriculture Industry

Ammonia plays a crucial role in the agriculture sector, particularly in the production of

nitrogen-based fertilizers like urea, ammonium nitrate, and ammonium sulfate. As global crop output continues to rise—with primary crop production reaching 9.9 billion tonnes in 2023—ammonia remains integral to supporting soil fertility and boosting yields. Nitrogen, derived from ammonia, is vital for photosynthesis, protein synthesis, and plant development. The push toward precision agriculture and advanced farming techniques further increases reliance on ammonia-based inputs. Enhanced crop productivity, rising food demand, and technological innovation in fertilizer application are key contributors to sustained ammonia consumption in global agriculture.

## Key Market Challenges

### Lack in Availability of Raw Materials

Ammonia production is highly dependent on fossil fuels, particularly natural gas, which accounts for a large portion of its energy and feedstock inputs. Volatility in raw material availability and pricing poses a significant challenge for producers. Disruptions in natural gas supply chains, geopolitical instability, and trade restrictions can lead to production slowdowns and rising costs. These issues are especially critical for the fertilizer sector, where ammonia is an indispensable input. Fluctuations in raw material costs also create pricing uncertainty and affect profit margins, making it difficult for manufacturers to plan long-term strategies. In some markets, elevated input costs have led to fertilizer shortages and price hikes, compounding pressure on end-users.

## Key Market Trends

### Growing Interest in Green Ammonia

Green ammonia is gaining attention as a sustainable and carbon-free alternative to conventionally produced ammonia. By using renewable energy sources and electrolysis instead of fossil fuels, green ammonia significantly reduces greenhouse gas emissions. It holds considerable potential in decarbonizing sectors like power generation and maritime shipping, where cleaner fuel alternatives are urgently needed. Additionally, in agriculture, green ammonia can support the transition toward lower-emission fertilizer production. As global regulations tighten around carbon emissions, industries are increasingly looking to green ammonia to align with environmental goals. Its adoption reflects a larger movement toward sustainability and energy transition across the chemical and energy sectors.

## Key Market Players

BASF SE

Casale SA

CF Industries Holdings, Inc.

Chambal Fertilisers and Chemicals Ltd

Csbp Ltd.

EuroChem Group AG

Koch Fertilizer, LLC.

Nutrien Ltd

Rashtriya Chemicals and Fertilizers Limited

SABIC

#### Report Scope:

In this report, the Global Ammonia Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

#### Ammonia Market, By Form:

Liquid

Gas

Powder

### Ammonia Market, By End User:

Agriculture

Textiles

Mining

Pharmaceutical

Refrigeration

Others

### Ammonia Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Ammonia Market.

## Available Customizations:

Global Ammonia Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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