

Global Ammonia Market Outlook to 2027

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Abstracts

Ammonia is an inorganic compound constituted of a single nitrogen atom covalently bonded to three hydrogen atoms that are an amidase inhibitor and neurotoxin and easily dissolves in water and forms an ammonium hydroxide solution and gas can be easily compressed, which creates a colorless & transparent liquid under pressure. According to BlueQuark Research & Consulting, the global ammonia market is expected to witness a significant growth rate during the forecasted period. Factors such as the demand for food in the Asia-Pacific region lead to high consumption of fertilizers from the agriculture industry, which is anticipated to observe the fastest growth rate, among other areas, which is expected to drive the demand of ammonia market in the forecasted period. Further, the utilization of ammonia as a refrigerant is predicted to provide an opportunity for the global ammonia market due to manufacturers are looking for alternatives to HFCs and HCFCs (they reduce the ozone layer, although ammonia is environmentally benign) is predicted to fuel the ammonia market in the forecasted period. Furthermore, the global rise in the use of ammonia in the manufacture of drugs and vaccines and its widespread use in fertilizers and other end-use applications are expected to drive the global ammonia market in the forecasted period. However, unless the cost of renewable power and electrolyzers decreases further, it is not feasible for general ammonia producers to switch from traditional ammonia production to green ammonia production, thus hampering the market's growth.

Ammonia is widely used in manufacturing nitrogen-based fertilizers that include urea, ammonium nitrates, ammonium phosphates, and ammonium sulfate. The demand significantly affects the use of ammonia in various end-use industries, including pharmaceutical, agriculture, pulp & paper, textiles, and mining.

The agriculture industry is one of the significant consumers of ammonia as it is used to produce fertilizer. Nitrogen is a vital element and much-needed source of nutrition for growing plants or crops, and ammonia has the highest nitrogen of any commercial

fertilizer. According to Fertilizer Outlook, the need for fertilizer is increasing modestly in the global market, owing to low crop prices and several investments anticipated to drive the global ammonia market. Ammonia is utilized significantly in the production process of fertilizers and other agrochemicals such as pesticides. It is also used in several industries such as industrial chemicals, agrochemicals, and explosives. Ammonia is the main building block for ammonium nitrate fertilizer, which discharges nitrogen, an essential nutrient for growing plants, including lawns and farm crops. Most ammonia produced worldwide is used in fertilizer to maintain food production. The composition of food crops usually depletes soil nutrient supplies. Most farmers depend on ammonia-based fertilizers to keep the soil productive and maintain healthy crops. Although the medium-term outlook for world agriculture remains extensively unchanged even after the pandemic, the agricultural production growth rates are steadily decreasing. Expectations to enhance fertilizer use efficiency and recycle more organic nutrient sources will pressure fertilizer demand in developed countries and a surging number of emerging economies. The global fertilizer need is experiencing slow growth, though ammonia-based products are faring better. With the growing demand for food production and the rising dependence on fertilizers, the global ammonia market is awaited to grow during the forecasted period.

Asia-Pacific continues to hold dominance during the forecasted period due to the increasing demand from end-user industries, consisting of paper and pulp, pharmaceutical, petroleum, etc. Ammonia is used significantly in the manufacturing process of fertilizers and other agrochemicals like pesticides. It is also worn in many industries, such as industrial chemicals, agrochemicals, and explosives. Further, the demand for food in the Asia-Pacific region leads to high consumption of fertilizers from the agriculture sector, which is projected to witness the fastest growth rate among other areas. China has appeared as the hub for chemical processing. The farmers in China use about 305 kilograms of nitrogen per hectare per year, which is more than four times the global average. Using electricity derived from fossil fuels for the electrolysis process would result in 2.65 tons of CO₂, whereas using renewables can have zero carbon emissions. In addition, the researchers are estimating the possibility of using NH₃ from the air rather than as a rise of purified nitrogen gas. This would result in greenhouse gas (GHG) savings, as nitrogen gas must be filtered and bottled. Ammonia is being significantly used to prepare various drugs and compounds, including amines, hydrogen cyanide, hydrazine, hydroxylamine, nitriles, ammonium carbonate, phenol, urea, and amino acids. The global surge in the use of ammonia in the manufacture of drugs and vaccines and its widespread use in fertilizers and other end-use applications are expected to drive the global ammonia market. Ammonia plays an essential role as a stabilizer, neutralizer, and nitrogen source in the waste and wastewater treatment, cold

storage, rubber, pulp, paper, and food & beverage industries. Ammonium byproducts such as ammonium hydroxide are essential in many household cleaning products, including tubs, sinks, toilets, countertops, and tiles. The various uses of ammonia for almost every end-user expect a heavy surge in demand for the ammonia market during the projected period. Overall, these factors are predicted to influence the order in the ammonia market.

The global Ammonia market is fragmented. The major players in the worldwide Ammonia market are BASF SE, Qatar Fertiliser Company, SABIC, CF Industries Holdings Inc., and EuroChem.

In January 2021, Clariant and Casale evolved AmoMax™-Casale, a new ammonia catalyst. The product focuses on making ammonia production more efficient and less polluting, i.e., reducing carbon dioxide emission.

Global Ammonia Market report provides deep insight into the current and future state of the Global Ammonia Market across various regions. The study comprehensively analyzes the Global Ammonia Market by segmenting based on geography, Type (Liquid, Gas, and Powder), End-user Industry (Agriculture, Textiles, Mining, Pharmaceutical, Refrigeration, and Others). The report examines the market drivers and restraints that influence growth in detail. The study covers & includes emerging market trends, developments, opportunities, and challenges in the industry. This report also covers extensively researched competitive landscape sections with profiles of prominent companies, including their market shares and projects.

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