

Food Grade Gases Market Size, Growth Opportunities, Analysis by Competitors and Regional Growth

Increase in adoption of food-grade gases in the food industry has boosted the growth of the global food grade gases market.

WILMINGTON, DE, UNITED STATES, August 11, 2025 /EINPresswire.com/ -- [Food grade gases market size](#) was pegged at \$6.4 billion in 2018 and is projected to garner \$8.1 billion by 2026, registering a CAGR of 3.2% from 2019 to 2026.

Increase in adoption of food grade gases in the food industry has boosted the growth of the global food grade gases market. However, stringent regulations and standards set by the government restrict the growth of the market. On the other hand, continuous investment for upgrading the high-tech food preservation technology is expected to create lucrative opportunities in the near future.

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Innovators, R&D specialists, farmers, and entrepreneurs are developing technologies to address issues in each aspect of the food system. For instance, the introduction of food grade gases provides solutions to various challenges in the industry. As a result, food grade gases market has witnessed increase in use of nitrogen and carbon dioxide in various food products for prolonging their shelf life.

Food grade gases are processing aids or additives, which are used to meet the food quality standards. Food grade gases play an important role in the entire preservation and food packaging processes. These gases are primarily used to grind, freeze, and package a variety of products, which include dairy & bakery items, fish & seafood, beverages, poultry products, vegetables & fruits, and prepared meals. In addition, the use of industrial gases in food



application has increased owing to their benefits such as cost saving and in maintaining the quality of products.

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The global food grade gases market is segmented on the basis of type, application, end user and region. Based on type, the market is classified into Carbon Dioxide, Nitrogen, and Others. By application, the market is further sub-segmented into Freezing & Chilling and Packaging & Carbonation. By end user the market is divided into Beverages, Meat & Seafood, and Packaged Products. Based on region, the market is analyzed across North America (U.S., Canada, and Mexico), Europe (Germany, Spain, UK, Italy, France, and rest of Europe), Asia-Pacific (China, India, Japan, Australia, South Korea, and rest of Asia-Pacific), and LAMEA (Brazil, South Africa, Saudi Arabia, UAE, and rest of LAMEA).

Based on region, the market across North America held lion's share in 2018, accounting for nearly two-fifths of the total market share. This is due to increase in health-conscious population. On the other hand, Asia-Pacific would grow at the fastest CAGR 5.5% throughout the forecast period. The increasing disposable income, rise in growth of urbanization and increasing retail network in countries like India, China, and Japan is routinely increasing the demand for packaged products and meat & seafood. In addition, increasing demand for beverages like soft drinks, fitness drinks, fruit juices, packaged food products, and others results in increasing the growth of food grade gases market.

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Major market players

Air Liquide SA,
Air Water Inc.
Gulf Cyro, Linde Plc, SOL Group
Taiyo Nippon Sanso Corporation
The Massy Gas Products (Trinidad) Ltd
The Messer Group GmbH
Air Products and Chemicals, Inc
Coregas Pty Ltd

The global [food grade gases industry](#) growth is driven by the introduction of innovative methods for food preservation such as cold plasma, pulse electric fields, and high pressure processing for heat-sensitive foods to reduce food spoilage and to preserve food texture, color, flavor, and nutrient content. However, decrease in demand for beverages in developed regions such as Europe and North America owing to rise in prices of sugar has reduced the demand for food grade gases, thereby restraining the growth of the global market.

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