

Food Grade Phosphoric Acid Market Report by Product Type (Food Grade 75%, Food Grade 80%, Food Grade 85%, and Others), Application (Food Preservation, Beverages Production, Metal Treatment, Sugar Refining, and Others), and Region 2024-2032

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Abstracts

The global food grade phosphoric acid market size reached US\$ 2.4 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 3.3 Billion by 2032, exhibiting a growth rate (CAGR) of 3.37% during 2024-2032. The market is experiencing stable growth driven by the rising awareness among individuals about the importance of food safety, increasing consumption of beverages, and the escalating demand for convenience food products on account of changing consumer preferences.

Food Grade Phosphoric Acid Market Analysis:

Market Growth and Size: The market is witnessing steady growth on account of the increasing focus on health and wellness, along with the rising consumption of processed and packaged food products.

Technological Advancements: Innovations are leading to various applications of food grade phosphoric acid in food processing. This includes its use in enhancing the quality and safety of food products.

Industry Applications: Food grade phosphoric acid finds application in beverages, convenience food items, sauces, and canned goods.

Geographical Trends: Asia Pacific leads the market, driven by changing dietary habits of individuals. However, North America is emerging as a fast-growing market due to stringent food safety regulations.

Competitive Landscape: Key players are focusing on discovering new uses, improving product formulations, and enhancing the efficiency of production processes.

Challenges and Opportunities: While the market faces challenges, such as evolving

consumer preferences, it also encounters opportunities in increasing demand for healthier food options among individuals.

Future Outlook: The future of the food grade phosphoric acid market looks promising, with the integration of advanced technologies. In addition, the rising focus on eco-friendly methods of producing food grade phosphoric acid is expected to bolster the market growth.

Food Grade Phosphoric Acid Market Trends:

Rising awareness about food safety

The increasing awareness among individuals about food safety is supporting the growth of the market. In line with this, people are becoming concerned about the safety of the food products they consume. Furthermore, the growing incidences of high-profile foodborne illness, along with the rising awareness about the potential risks associated with food products, is offering a positive market outlook. Besides this, governing agencies of various countries are implementing stringent food safety regulations and standards, which is propelling the market growth. Compliance with these regulations is necessary for food manufacturers and suppliers to maintain a competitive edge. In addition, consumers are focusing on enhanced transparency in food production and sourcing. Apart from this, advancements in technology are leading to more sophisticated methods for testing and monitoring food safety. Additionally, rapid testing, traceability systems, and data analytics are increasingly being used to detect and prevent contamination in various food items, which is impelling the growth of the market.

Growing demand for convenience food products

The rising demand for convenience food products on account of changing preferences of individuals across the globe is bolstering the growth of the market. In addition, the increasing consumption of quick and hassle-free food solutions among people with busy lifestyles and hectic working schedules is propelling the market growth. Apart from this, phosphoric acid helps in maintaining the texture and appearance of convenience food products. It also prevents undesirable changes, such as discoloration and texture degradation, which can occur during processing and storage. Moreover, the growing demand for portion-controlled and single-serving convenience food options is offering a positive market outlook. Furthermore, increasing preferences for convenience food products through online platforms due to their enhanced convenience and doorstep delivery solutions is strengthening the market growth. Additionally, consumers are seeking healthier food options that are lower in calories, sodium, and artificial additives. Besides this, advancements in food processing technology are leading to the

development of innovative convenience food products, including ready meals, frozen foods, and microwavable options.

Increasing consumption of beverages

The escalating demand for food grade phosphoric acid due to the rising consumption of beverages among individuals is supporting the market growth. In line with this, consumers are increasingly becoming more health-conscious and seeking beverages that align with their dietary preferences. Furthermore, increasing preferences for bottled water, herbal teas, and low-sugar or sugar-free options is impelling the market growth. Besides this, the rising adoption of beverages that offer functional benefits, such as enhanced hydration, energy boost, and are enriched with vitamins, minerals, and other bioactive compounds, is propelling the market growth. Moreover, food grade phosphoric acid is widely used as an acidulant in the beverage industry. It plays a crucial role in adjusting and enhancing the acidity of various beverages and is essential for achieving the desired taste profile and providing a refreshing sensation. Apart from this, the increasing consumption of on-the-go beverages, including ready-to-drink (RTD) options like bottled juices, iced coffee, and energy drinks among people with busy lifestyles, is bolstering the market growth.

Food Grade Phosphoric Acid Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2024-2032. Our report has categorized the market based on product type and application.

Breakup by Product Type:

Food Grade 75%

Food Grade 80%

Food Grade 85%

Others

The report has provided a detailed breakup and analysis of the market based on the product type. This includes food grade 75%, food grade 80%, food grade 85%, and others.

Food grade 75% is the specific concentration of phosphoric acid that is suitable for use in the food and beverage (F&B) industry. It is formulated to meet stringent quality and safety standards. In addition, this concentration is generally used as an acidulant and

potential of hydrogen (pH) regulator in various food products, including carbonated beverages, jams, and canned goods. Apart from this, it assists in enhancing flavor, preserving shelf life, and maintaining the safety and quality of these food items.

Food grade 80% is the specific concentration of phosphoric acid that meets the purity and safety standards required for use in the F&B industry. This concentration is commonly employed as an acidulant and pH regulator in the production of various food and beverage items. In line with this, it plays a crucial role in enhancing flavors, extending the shelf life of products, and maintaining the desired acidity levels. Furthermore, it is beneficial in ensuring the safety and quality of a wide range of food products, including carbonated drinks, canned goods, and condiments.

Food grade 85% is the specific concentration of phosphoric acid suitable for use in the food sector. It signifies that the product contains 85% pure phosphoric acid and 15% water or other permissible diluents. It adheres to rigorous quality and safety standards required for food applications. It serves as a crucial ingredient in the food processing sector, functioning as an acidulant and pH regulator. It enhances the flavor of various food and beverage products, extends their shelf life, and ensures the desired acidity levels. Its use in items like carbonated beverages, sauces, and canned goods contributes to both taste enhancement and product preservation while meeting stringent food safety requirements.

Breakup by Application:

- Food Preservation
- Beverages Production
- Metal Treatment
- Sugar Refining
- Others

Food preservation holds the largest market share

A detailed breakup and analysis of the market based on the application have also been provided in the report. This includes food preservation, beverages production, metal treatment, sugar refining, and others. According to the report, food preservation accounted for the largest market share.

Food preservation is the practice of extending the shelf life and ensuring the safety of food products through various techniques and methods. Phosphoric acid, with its acidic

properties, helps inhibit the growth of harmful microorganisms, such as bacteria and molds, in food items. This preservation method prevents spoilage, maintains product quality, and enhances food safety. In addition, it is commonly used in canned goods, where its acidity preserves the contents and prevents bacterial contamination and degradation. Food preservation techniques, like the use of food grade phosphoric acid, are crucial in ensuring that individuals have access to safe and long-lasting food products.

Food grade phosphoric acid serves as a versatile ingredient in beverages production. It primarily functions as an acidulant, imparting acidity and tangy flavor to a wide range of beverages, including carbonated soft drinks. It can adjust and balance pH levels, which contributes to the desired taste profile of these beverages. Phosphoric acid also acts as a stabilizer, enhancing the clarity and stability of certain drinks. Additionally, it plays a vital role in controlling the foaming properties of carbonated beverages during the carbonation process. As a result, food grade phosphoric acid plays a valuable role in achieving the desired taste, quality, and shelf stability of various beverages, ensuring the satisfaction of individuals.

Food grade phosphoric acid finds application as a metal treatment and rust inhibitor. It has acidic properties that enable it to remove rust, corrosion, and mineral deposits from metal surfaces effectively. It acts as an etchant, preparing the metal for further treatment or coating processes. Moreover, phosphoric acid forms a protective layer on the metal surface, inhibiting future corrosion. This makes it a valuable component in industries, such as automotive, manufacturing, and construction, where metal parts and structures require cleaning, surface preparation, and protection against corrosion, ultimately extending the lifespan and reliability of metal components and products.

In sugar refining, food grade phosphoric acid is used to remove impurities and color from raw sugar, contributing to the production of high-quality and refined sugar products. Phosphoric acid is added to the sugar solution during the refining process to precipitate out unwanted non-sugar compounds, such as minerals and organic materials. This acid treatment purifies the sugar, resulting in a cleaner and whiter end product. Apart from this, food grade phosphoric acid ensures that the refined sugar meets the purity and quality standards required by the food industry, making it suitable for a wide range of food and beverage applications, including confectionery and bakery products.

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Asia Pacific leads the market, accounting for the largest food grade phosphoric acid market share

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific accounted for the largest market share due to rising preferences for processed and convenience food items. Besides this, changing dietary habits of individuals is impelling the growth of the market. Furthermore, the increasing consumption of carbonated soft drinks among the masses is bolstering the market growth.

North America stands as another key region in the market, driven by the thriving F&B sector. In line with this, stringent food safety regulations are supporting the market growth. Furthermore, the growing focus on product quality and safety is positively influencing the market.

Europe maintains a strong presence in the market, with a presence of well-established and diverse food processing industry. In addition, the rising development of eco-friendly products is propelling the market growth. Besides this, the increasing focus on health and nutrition among individuals is contributing to the market growth.

Latin America exhibits growth on account of the changing dietary habits of individuals. Apart from this, the escalating demand for food grade phosphoric acid due to the rising consumption of carbonated soft drinks, fruit juices, and flavored water is strengthening the market growth.

The Middle East and Africa region is primarily driven by the growing utilization of food grade phosphoric acid to enhance the taste and preserve product quality of processed food items. In addition, the thriving F&B industry in the region is impelling the market growth.

Leading Key Players in the Food Grade Phosphoric Acid Industry:

Key players are investing in research and development (R&D) activities to develop innovative applications for food grade phosphoric acid. They are focusing on discovering new uses, improving product formulations, and enhancing the efficiency of production processes. In line with this, they are maintaining the highest standards of product quality and safety by adhering to stringent regulatory requirements. They are ensuring that their products meet or exceed industry standards. Furthermore, companies are seeking to expand their market reach by entering new geographic regions or exploring emerging markets. Apart from this, major manufacturers are diversifying their product portfolios to include a range of food additives and ingredients. Moreover, companies are focusing on reducing their environmental footprint by investing in sustainable sourcing of raw materials, energy-efficient production processes, and eco-friendly packaging.

The market research report has provided a comprehensive analysis of the competitive landscape. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Arkema S.A.

Brenntag SE
Emco Dyestuff Pvt Ltd
Grasim Industries Limited (Aditya Birla Management Corporation Ltd.)
ICL Group Ltd.
Innophos Inc.
Nutrien Ltd.
OCP Group
Spectrum Laboratory Products Inc.
The Mosaic Company
Vinipul Inorganics Private Limited

(Please note that this is only a partial list of the key players, and the complete list is provided in the report.)

Latest News:

August, 2020: OCP Group partnered with Budenheim and Prayon to build a new plant and produce purified phosphoric acid, through their subsidiary Euro Maroc Phosphore (EMAPHOS). This new plant will double the annual production capacity of EMAPHOS.

Key Questions Answered in This Report

1. What was the size of the global food grade phosphoric acid market in 2023?
2. What is the expected growth rate of the global food grade phosphoric acid market during 2024-2032?
3. What are the key factors driving the global food grade phosphoric acid market?
4. What has been the impact of COVID-19 on the global food grade phosphoric acid market?
5. What is the breakup of the global food grade phosphoric acid market based on the application?
6. What are the key regions in the global food grade phosphoric acid market?
7. Who are the key players/companies in the global food grade phosphoric acid market?

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