

US High-Purity Electronic-Grade Phosphoric Acid Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Application (Semiconductor Manufacturing, Electronics Etching and Cleaning, and Others)

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Abstracts

The US high-purity electronic-grade phosphoric acid market was valued at US\$ 78.73 million in 2023 and is projected to reach US\$ 112.21 million by 2031; it is estimated to record a CAGR of 4.5% from 2023 to 2031.

High-purity electronic-grade phosphoric acid is used in semiconductor manufacturing, electronics etching and cleaning, and other applications. High-purity electronic-grade phosphoric acid is a commonly used wet etching agent in compound semiconductor processing. The major factors driving the growth of the US high-purity electronic-grade phosphoric acid market are the strong presence of the electronics industry and the increasing investments in semiconductor manufacturing. The US has a vibrant and dynamic electronics manufacturing industry with a long history of innovation and resiliency. This industry is the heart of innovation in every sector of the US economy. In addition, the government of the US strives to boost domestic semiconductor manufacturing through the injection of vast amounts of money into the electronics & semiconductor sector. All these factors are driving the demand for high-purity electronic-grade phosphoric acid. Further, the adoption of lithium iron phosphate batteries in consumer electronics is expected to offer lucrative opportunities for the US high-purity electronic-grade phosphoric acid market growth in the coming years.

Based on application, the US high-purity electronic-grade phosphoric acid market is

segmented into semiconductor manufacturing, electronics etching and cleaning, and others. The semiconductor manufacturing segment accounted for the largest the US high-purity electronic-grade phosphoric acid market share in 2023. The high-purity phosphoric acid, containing impurities to the absolute minimum, can be used as an etching agent for semiconductors that are sensitive to particles. The flourishing semiconductor manufacturing continues to drive the demand for high-purity electronic-grade phosphoric acid in the US. Various investments in semiconductor manufacturing by the government of the US are further expected to boost the high-purity electronic grade phosphoric acid market growth in the coming years. Further, the electronics etching and cleaning is another major segment in the US high-purity electronic grade phosphoric acid market. High-purity phosphoric acid is an important component used in the manufacturing of liquid crystal displays (LCDs), which have become ubiquitous in the modern world. High-purity electronic-grade phosphoric acid is also used in the etching and cleaning of various sensitive electronic components.

ICL Group Ltd, Spectrum Chemical Manufacturing Corp, Solvay SA, Capitol Scientific Inc, Lab Alley LLC, Univar Solutions Inc, Prayon SA, OCI Holdings Co Ltd, Advance Scientific & Chemical Inc, and Hubei Xingfa Chemicals Group Co Ltd are among the prominent players profiled in the US high-purity electronic-grade phosphoric acid market report. These players focus on providing high-quality products to fulfill customer demand by adopting various strategies such as mergers and acquisitions, capacity expansions, partnerships, and collaborations to stay competitive in the market. For instance, in 2024, Lab Alley, LLC expanded its operations with a new 33,000 sq. ft. facility in Austin, Texas. In 2023, Univar Solutions and Chemi Nutra LLC expanded their business relationship in Canada with an exclusive agreement. Univar Solutions Canada Ltd., a subsidiary of Univar Solutions Inc., a leading global solutions provider to users of specialty ingredients and chemicals, was named the exclusive distributor for Chemi Nutra LLC's specialty, functional, and nutraceutical ingredients in Canada. Further in 2023, Prayon, a global player in phosphorus chemistry, successfully acquired Febex from Arkema. With 97% of the shares held, Prayon becomes the majority shareholder in Febex company. This acquisition marks an important step in strengthening Prayon's position in phosphorus chemistry.

The overall US high-purity electronic-grade phosphoric acid market size has been derived using both primary and secondary sources. To begin the research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the market. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain more analytical insights into the topic. The participants of this process include

industry experts such as VPs, business development managers, market intelligence managers, and national sales managers—along with external consultants such as valuation experts, research analysts, and key opinion leaders—specializing in the US high-purity electronic-grade phosphoric acid market.

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