

Phosphoric Acid Market Growth, Innovations & Opportunities in Green Production & Resource Recovery | DataMIntelligence

The phosphoric acid market is set to grow at a 4.2% CAGR, driven by fertilizer demand, sustainable technologies, acid recovery solutions, and strategic M&A.

COLORADO, CO, UNITED STATES, July 29, 2025 /EINPresswire.com/ -- Market Overview :-

The [Phosphoric Acid Market](#) is driven by rising global demand for fertilizers, especially in developing regions, due to increasing population and the need for enhanced agricultural productivity. It is also supported by its growing use in food and beverage acidulants, metal surface treatment, flame retardants, and other industrial applications. Technological advancements in both wet-process and thermal methods, combined with regulatory pressure for sustainable production and phosphorous recycling, are accelerating innovation. As industry leaders pursue energy efficiency, downstream integration, and improved cost control, the market continues to evolve across multiple sectors.

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The phosphoric acid market's future hinges on green production and circular-economy solutions. Innovations in energy-efficient processes and acid recovery are reshaping industry dynamics.”

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Phosphoric Acid Market Recent Innovations :

June 2025: A thermal-route pilot project reduced steam consumption by 15%, significantly cutting CO₂ emissions and operating costs.

May 2025: A leading fertilizer manufacturer introduced a new wet-process catalyst that improved P₂O₅ concentration by 8%, enhancing batch efficiency.

April 2025: A circular-economy initiative achieved 90% phosphorus recovery from industrial wastewater, reducing effluent disposal costs by up to 40%.

March 2025: A specialty chemicals firm launched a nano-coated corrosion inhibitor that extended metal-treatment equipment lifespan by 25%.

Phosphoric Acid Market Recent Mergers & Acquisitions :-

February 2025: EuroChem Group AG acquired a 60% stake in a Southeast Asian phosphoric acid producer to secure feedstock and expand regional presence.

December 2024: The Mosaic Company acquired a regional phosphate rock mine operator, adding 2 million tonnes of capacity to its upstream supply.

October 2024: Nutrien and Yara International formed a joint venture in North America focused on renewable-powered green phosphate production.

Phosphoric Acid Market Opportunities :-

Expansion of green production technologies using renewable energy sources.

Phosphorus recovery from municipal and industrial wastewater for reuse.

Demand for specialty-grade acid in electronics, pharma, and high-performance coatings.

New markets in sub-Saharan Africa and Southeast Asia where fertilizer use is below global averages.

Phosphoric Acid Market Values are ;

Market Size in 2024: USD 46.2 billion

Projected Market Size in 2033: USD 69.1 billion

CAGR (2024–2033): 4.2%

Key Players in the Phosphoric Acid Market are :-

The Mosaic Company

PJSC PhosAgro

Nutrien

IFFCO
EuroChem Group AG
Prayon Group
Israel Chemical Ltd.
Yara International
OCP S.A.
Aditya Birla Group

These companies are at the forefront of innovation, sustainability, and global expansion, often involved in mergers, joint ventures, and forward integration strategies.

Phosphoric Acid Market Segmentation :

By Process:

Wet Process
Thermal Process
Electrical Process

By Grade:

Technical Grade
Food-Grade
Electronic Grade

By Application:

Fertilizers (Phosphate, Compound NPK)
Food & Beverage (Acidulants)
Metal Surface Treatment
Flame Retardants
Others (Water Treatment, Pharmaceuticals)

By Geography:

North America
Europe
Asia Pacific
Latin America
Middle East & Africa

Latest Developments: USA -

In May 2025, the U.S. Environmental Protection Agency (EPA) introduced new regulations limiting phosphate discharge in industrial wastewater. This has driven rapid adoption of acid recovery technologies across chemical and fertilizer plants. Additionally, the Inflation Reduction Act continues to provide funding for low-carbon production solutions, including phosphoric acid projects aligned with sustainable agriculture goals.

Latest Developments: Japan -

In June 2025, Japan's Ministry of Economy, Trade and Industry (METI) launched a government-backed funding program to support phosphorus recycling technologies. The initiative aims to reduce dependency on imported phosphoric acid by 50% by 2030. Several Japanese chemical companies have already initiated pilot projects to recover phosphoric acid from electronic-waste leachates.

Conclusion :-

With a CAGR of 4.2% projected through 2033, the phosphoric acid market is positioned for sustainable long-term growth. Fertilizer demand will remain its largest driver, but industrial and specialty applications will gain momentum. Innovations in green chemistry, acid recovery systems, and strategic partnerships will shape the competitive landscape. Companies investing in sustainable, high-efficiency processes are well-placed to lead in the coming decade.

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