

Global Solid Phosphorous Acid Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Solid Phosphorous Acid market size was valued at US\$ 184 million in 2025 and is forecast to a readjusted size of US\$ 262 million by 2032 with a CAGR of 5.1% during review period.

Solid phosphorous acid refers to a solid product of phosphorous acid with the chemical formula H_3PO_3 , typically appearing as white or slightly yellow crystals, crystalline powders, flakes or granular solids. Common industrial specifications include 98%, 98.5%, and 99%. It is different from phosphoric acid, as hypophosphite is a dicarboxylic acid with strong reducibility. It is mainly produced by the hydrolysis of phosphorus trichloride or related phosphorus chemical by-products. It is commonly used in the production of hypophosphite, phosphonates, water treatment agents, plastic stabilizers, pesticide intermediates, flame retardants, and fine chemical intermediates. In 2025, global Solid Phosphorous Acid production reached approximately 159.67 K MT, with an average global market price of around US\$ 1,120 per MT. The annual production capacity of solid phosphorous acid is 260 K MT, with a gross profit margin of about 20%.

The upstream mainly includes yellow phosphorus or red phosphorus, chlorine gas, phosphorus trichloride, water, steam, electricity, cooling water, crystallization and refining equipment, corrosion-resistant reaction vessels, drying equipment, moisture-proof packaging bags, and hazardous chemical warehousing and logistics. The mainstream industrial route is the reaction of phosphorus trichloride with water to produce phosphorous acid and hydrogen chloride, and the hydrolysis of PCl_3 to produce phosphorous acid is also a major process listed in public cost reports and chemical data.

The downstream of solid hypophosphite mainly includes water treatment agents, phosphonates, detergent auxiliaries, plastic stabilizers, PVC heat stabilizers, flame retardants, pesticide intermediates, hypophosphite fertilizers, plant protection preparations, pharmaceutical intermediates, fine chemical intermediates, and metal surface treatment chemicals.

Phosphorus trichloride or related phosphorus source raw materials account for about 55% to 68%, auxiliary chemicals such as chlorine gas, acid and alkali, and process water account for about 4% to 8%, steam, electricity, cooling water, and drying energy consumption account for about 8% to 12%, crystallization, centrifugation, drying, and crushing packaging processing account for about 5% to 9%, environmental treatment and by-product hydrogen chloride absorption account for about 4% to 8%, labor and equipment depreciation account for about 4% to 7%, detection, metal ion and chloride control account for about 2% to 5%, and packaging, warehousing, and hazardous chemical transportation account for about 3% to 6%.

Solid phosphorous acid is an intermediate product that extends from basic phosphorus chemical industry to fine phosphorus chemical industry. The core demand comes from phosphonates such as water treatment agents ATMP and HEDP, plastic antioxidants and heat stabilizers, phosphorous acid for pesticides and plant protection, PVC stabilizers, flame retardants, and pharmaceutical agrochemical intermediates. Compared to liquid phosphoric acid, solid products are more convenient for long-distance transportation, storage, and export, and are suitable for use as standardized raw materials in water treatment, plastic additives, and fine chemical enterprises. Therefore, they still have stable demand in Asian exports and European and American distribution systems. From the perspective of industrial structure, Chinese enterprises rely on the by-product routes of yellow phosphorus, phosphorus trichloride, and dimethyl phosphite to form cost and scale advantages, making them an important supply area for solid hypophosphite worldwide; International phosphorus chemical companies such as ICL have advantages in quality stability, compliance systems, and regional customer service. The future market growth is mainly driven by three factors: firstly, the increasing demand for corrosion and scale inhibitors in the industrial circulating water and membrane treatment fields, which drives the consumption of phosphonate intermediates; The second is plastic PVC? The demand for phosphite antioxidants and stabilizers in rubber and lubricating oil systems has increased; Thirdly, the acceptance of hypophosphite plant protection and nutritional products in agriculture has increased.

This report is a detailed and comprehensive analysis for global Solid Phosphorous Acid market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Solid Phosphorous Acid market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Solid Phosphorous Acid market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Solid Phosphorous Acid market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Solid Phosphorous Acid market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Solid Phosphorous Acid

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Solid Phosphorous Acid market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ICL, Linyi Chunming Chemical, Hubei

Xingfa Chemicals Group, Yichang Kaixiang Chemical, Rudong Huayun Chemical, Shandong Taihe Technologies, Jiangyin Yaoyu Chemical, Rudong Zhenfeng Yiyang Chemical, Rudong County Lianfeng Chemical, Guizhou SINO-PHOS Chemical, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Solid Phosphorous Acid market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Content?98%

Content?99%

Market segment by Synthetic Route

Residual Liquid Method

Phosphorus Trichloride Hydrolysis Method

Market segment by Application

Plastic Industry

Water Treatment

Agriculture

Synthetic Fiber

Other

Major players covered

ICL

Linyi Chunming Chemical

Hubei Xingfa Chemicals Group

Yichang Kaixiang Chemical

Rudong Huayun Chemical

Shandong Taihe Technologies

Jiangyin Yaoyu Chemical

Rudong Zhenfeng Yiyang Chemical

Rudong County Lianfeng Chemical

Guizhou SINO-PHOS Chemical

Hunan Haohua Chemical

Taizhou Yongchang Chemical

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Solid Phosphorous Acid product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Solid Phosphorous Acid, with price, sales quantity, revenue, and global market share of Solid Phosphorous Acid from 2021 to 2026.

Chapter 3, the Solid Phosphorous Acid competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Solid Phosphorous Acid breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Solid Phosphorous Acid market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Solid Phosphorous Acid.

Chapter 14 and 15, to describe Solid Phosphorous Acid sales channel, distributors, customers, research findings and conclusion.

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