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Global Phosphoryl Chloride 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 Phosphoryl Chloride market size was valued at US$ 1294 million in 2025 and is forecast to a readjusted size of US$ 1881 million by 2032 with a CAGR of 5.5% during review period.

Phosphoryl Chloride (POCl?) is a colorless to pale yellow, highly reactive inorganic liquid composed of phosphorus, oxygen, and chlorine, widely used as a chlorinating agent, dehydrating agent, and phosphorus source in chemical synthesis. It serves as an important intermediate in the production of organophosphorus compounds, phosphate esters, flame retardants, plasticizers, pharmaceuticals, agrochemicals, dyes, and semiconductor materials. In the electronics industry, high-purity phosphoryl chloride is used for phosphorus diffusion doping during silicon wafer fabrication. The supply chain begins with upstream raw materials such as elemental phosphorus (or phosphorus trichloride), chlorine gas, and oxygen or oxidizing agents. Phosphorus trichloride is typically produced by the reaction of elemental phosphorus with chlorine, followed by controlled oxidation to form phosphoryl chloride. The crude product is purified through distillation to produce industrial, reagent, electronic, or semiconductor grades depending on purity requirements. Midstream manufacturers package and distribute the material under strict moisture-free and corrosion-resistant conditions due to its violent reaction with water and release of hydrogen chloride. Downstream users include manufacturers of agrochemicals, pharmaceuticals, specialty chemicals, flame retardants, plasticizers, catalysts, and semiconductor devices, where phosphoryl chloride functions as a key chemical intermediate or processing reagent. In 2025, global Phosphoryl Chloride output was about 700,000 tons with 800,000 tons of capacity, average prices of USD 1,500?3,500 per ton, and gross margins around 25%.

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This report is a detailed and comprehensive analysis for global Phosphoryl Chloride 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 Phosphoryl Chloride market size and forecasts, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

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

Global Phosphoryl Chloride 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 Phosphoryl Chloride 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 Phosphoryl Chloride

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 Phosphoryl Chloride 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 Lanxess (Germany), ICL Group (Israel), Nippon

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Chemical (Japan), Tosoh Corporation (Japan), Sandhya Group (India), Excel Industries (India), Wynca Group (China), Hubei Xingfa Chemicals (China), Chengxing Industrial Group (China), Taixing Shenlong Chemical (China), etc.

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

Market Segmentation

Phosphoryl Chloride 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

Industrial Grade (98?99.9%)

High-Purity Grade (>99.9%)

Market segment by Production Method

Phosphorus Trichloride Oxidation

Phosphorus Chlorination-Oxidation

Market segment by Application

Agrochemical

Pharmaceutical

Specialty Chemical

Others

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Major players covered

- Lanxess (Germany)
- ICL Group (Israel)
- Nippon Chemical (Japan)
- Tosoh Corporation (Japan)
- Sandhya Group (India)
- Excel Industries (India)
- Wynca Group (China)
- Hubei Xingfa Chemicals (China)
- Chengxing Industrial Group (China)
- Taixing Shenlong Chemical (China)

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:

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Chapter 1, to describe Phosphoryl Chloride product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Phosphoryl Chloride 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 Phosphoryl Chloride 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 Phosphoryl Chloride.

Chapter 14 and 15, to describe Phosphoryl Chloride sales channel, distributors, customers, research findings and conclusion.

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