

Global Phosphorus Trifluoride (PF₃) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Phosphorus Trifluoride (PF₃) market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Phosphorus Trifluoride (PF₃) is an inorganic compound. It is a colorless and odorless toxic gas at room temperature and pressure. It is a colorless and transparent liquid in liquid state. It does not emit much smoke in the air. It can be used to synthesize metal organic frameworks (MOFs) and complexes. In the chemical industry, phosphorus trifluoride can be used as a synthetic raw material for certain special compounds. It can also be used to produce certain types of pesticides. In the semiconductor manufacturing process, phosphorus trifluoride can be used as a dopant to dope semiconductor materials such as silicon to change their electronic properties. Phosphorus trifluoride is highly toxic and combines with iron in hemoglobin to form a stable substance. It is highly irritating to the skin, eyes, and mucous membranes. Inhalation can cause inflammation of the upper and lower respiratory tracts and pulmonary edema. Extra caution is required when using phosphorus trifluoride. Appropriate safety measures must be taken, including the use of protective equipment and ensuring good ventilation conditions.

This report is a detailed and comprehensive analysis for global Phosphorus Trifluoride (PF₃) 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 Phosphorus Trifluoride (PF3) market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2020-2031

Global Phosphorus Trifluoride (PF3) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2020-2031

Global Phosphorus Trifluoride (PF3) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2020-2031

Global Phosphorus Trifluoride (PF3) market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2020-2025

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 Phosphorus Trifluoride (PF3)
- 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 Phosphorus Trifluoride (PF3) 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 Thermo Fisher Scientific, Merck, Ereztech, OOO NPO 'Termodinamika 3000', Linde Gas & Equipment Inc., APK (Shanghai) Gas, Shandong Zhongshan Photoelectric Materials, Meryer (Shanghai) Biochemical Technology, Anhui Senrise Technology, Shanghai Wechem Chemical, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Phosphorus Trifluoride (PF₃) market is split by Type and by Application. For the period 2020-2031, 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

Purity ? 99.9%

Purity ? 99.99%

Purity ? 99.999%

Market segment by Application

Chemical Industry

Pesticide

Semiconductor

Scientific Research

Others

Major players covered

Thermo Fisher Scientific

Merck

Ereztech

OOO NPO 'Termodinamika 3000'

Linde Gas & Equipment Inc.

APK (Shanghai) Gas

Shandong Zhongshan Photoelectric Materials

Meryer (Shanghai) Biochemical Technology

Anhui Senrise Technology

Shanghai Wechem Chemical

China Isotope Development

Baoding North Special Gases

Dideu Group

Feilin Gases

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 Phosphorus Trifluoride (PF₃) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Phosphorus Trifluoride (PF₃), with price, sales quantity, revenue, and global market share of Phosphorus Trifluoride (PF₃) from 2020 to 2025.

Chapter 3, the Phosphorus Trifluoride (PF₃) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Phosphorus Trifluoride (PF₃) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Phosphorus Trifluoride (PF₃) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Phosphorus Trifluoride (PF₃).

Chapter 14 and 15, to describe Phosphorus Trifluoride (PF₃) sales channel, distributors, customers, research findings and conclusion.

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