

# Global Phosphine Gas (PH<sub>3</sub>) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Phosphine Gas (PH<sub>3</sub>) market size was valued at USD 71 million in 2023 and is forecast to a readjusted size of USD 111.1 million by 2030 with a CAGR of 6.6% during review period.

Phosphine (PH<sub>3</sub>) in the electronic industries is offered at high purity by the supplier. Purities offered range from low 99.99% to 99.9999+%. Phosphine Gas is a p-type implant material used in semiconductors. Diluted PH<sub>3</sub>/H<sub>2</sub> mix is used in PECVD deposition of TFT for flat panel display and epi nMOS Si:P:C Source/Drain (S/D) in logic/DRAM. It is also a plasma / ion immersion doping source in FPD.

Global key players of Phosphine Gas include Entegris, Linde plc, Versum Materials, Taiyo Nippon Sanso, Solvay, etc. The top three players hold a share over 80%. Asia-Pacific is the largest market, has a share about 80%, followed by Europe and North America, with share 6% and 9%, separately. In terms of product type, 6N is the largest segment, occupied for a share of 88%, and in terms of application, Semiconductor Industry has a share about 90 percent.

The Global Info Research report includes an overview of the development of the Phosphine Gas (PH<sub>3</sub>) industry chain, the market status of Organophosphorus Chemistry (Electronic Grade Phosphine Gas (PH<sub>3</sub>), Technical Grade Phosphine Gas (PH<sub>3</sub>)), Microelectronics (Electronic Grade Phosphine Gas (PH<sub>3</sub>), Technical Grade Phosphine Gas (PH<sub>3</sub>)), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Phosphine Gas (PH<sub>3</sub>).

Regionally, the report analyzes the Phosphine Gas (PH<sub>3</sub>) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Phosphine Gas (PH<sub>3</sub>) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Phosphine Gas (PH<sub>3</sub>) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Phosphine Gas (PH<sub>3</sub>) industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (MT), revenue generated, and market share of different by Type (e.g., Electronic Grade Phosphine Gas (PH<sub>3</sub>), Technical Grade Phosphine Gas (PH<sub>3</sub>)).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Phosphine Gas (PH<sub>3</sub>) market.

**Regional Analysis:** The report involves examining the Phosphine Gas (PH<sub>3</sub>) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Phosphine Gas (PH<sub>3</sub>) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Phosphine Gas (PH<sub>3</sub>):

**Company Analysis:** Report covers individual Phosphine Gas (PH<sub>3</sub>) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their

financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Phosphine Gas (PH<sub>3</sub>). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Organophosphorus Chemistry, Microelectronics).

**Technology Analysis:** Report covers specific technologies relevant to Phosphine Gas (PH<sub>3</sub>). It assesses the current state, advancements, and potential future developments in Phosphine Gas (PH<sub>3</sub>) areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Phosphine Gas (PH<sub>3</sub>) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Phosphine Gas (PH<sub>3</sub>) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Electronic Grade Phosphine Gas (PH<sub>3</sub>)

Technical Grade Phosphine Gas (PH<sub>3</sub>)

### Market segment by Application

Organophosphorus Chemistry

Microelectronics

Fumigant

Major players covered

CYTEC SOLVAY GROUP

Nippon Chemical Industrial

Air Products

Pentagon Chemicals

Bhagwati Chemicals

BASF Intermediates

GASCO

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 Phosphine Gas (PH<sub>3</sub>) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Phosphine Gas (PH<sub>3</sub>), with price, sales, revenue and global market share of Phosphine Gas (PH<sub>3</sub>) from 2019 to 2024.

Chapter 3, the Phosphine Gas (PH<sub>3</sub>) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Phosphine Gas (PH<sub>3</sub>) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Phosphine Gas (PH<sub>3</sub>) market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Phosphine Gas (PH<sub>3</sub>).

Chapter 14 and 15, to describe Phosphine Gas (PH<sub>3</sub>) sales channel, distributors, customers, research findings and conclusion.

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