

# Global Electronic Special Phosphine (PH<sub>3</sub>) Market Research Report 2026(Status and Outlook)

<https://marketpublishers.com/r/G534A9C74193EN.html>

Date: March 2026

Pages: 136

Price: US\$ 2,980.00 (Single User License)

ID: G534A9C74193EN

## Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Electronic Special Phosphine (PH<sub>3</sub>) competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. Electronic Special 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. With the expansion of 5G networks, IoT devices, artificial intelligence (AI), and advanced computing, the demand for semiconductors continues to rise, driving the need for Electronic Special Phosphine (PH<sub>3</sub>). The ongoing transition to 7nm and smaller node technologies in semiconductor manufacturing has led to stricter requirements for gas purity, further boosting demand. Additionally, 3D NAND and advanced logic devices rely on Electronic Special Phosphine (PH<sub>3</sub>) to ensure consistent electrical properties during fabrication, contributing to the market's growth. Global key players of Electronic Special Phosphine (PH<sub>3</sub>) include Entegris, Linde plc, Versum Materials, Taiyo Nippon Sanso, Solvay, Nata Opto-electronic, 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 Electronic Special Phosphine (PH<sub>3</sub>) market size was estimated at USD 85.8 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 6.70% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Electronic Special Phosphine (PH3) market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Electronic Special Phosphine (PH3) market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Electronic Special Phosphine (PH3) market.

### **Global Electronic Special Phosphine (PH3) Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

Entegris  
Linde plc  
Versum Materials  
Taiyo Nippon Sanso  
Solvay  
Nata Opto-electronic  
Shanghai GenTech

### **Market Segmentation (by Type)**

4N  
5N  
6N

### **Market Segmentation (by Application)**

Semiconductor Industry  
Photovoltaic Industry

### **Geographic Segmentation**

North America (USA, Canada, Mexico)  
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)  
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)  
South America (Brazil, Argentina, Columbia, Rest of South America)  
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

### **Key Benefits of This Market Research:**

Industry drivers, restraints, and opportunities covered in the study  
Neutral perspective on the market performance  
Recent industry trends and developments  
Competitive landscape & strategies of key players  
Potential & niche segments and regions exhibiting promising growth covered  
Historical, current, and projected market size, in terms of value  
In-depth analysis of the Electronic Special Phosphine (PH<sub>3</sub>) Market  
Overview of the regional outlook of the Electronic Special Phosphine (PH<sub>3</sub>) Market:

## Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

## Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Electronic Special Phosphine (PH3) Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Electronic Special Phosphine (PH<sub>3</sub>), their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five

forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

### **Customization of the Report**

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## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

- 1.1 Market Definition and Statistical Scope of Electronic Special Phosphine (PH3)
- 1.2 Key Market Segments
  - 1.2.1 Electronic Special Phosphine (PH3) Segment by Type
  - 1.2.2 Electronic Special Phosphine (PH3) Segment by Application
- 1.3 Methodology & Sources of Information
  - 1.3.1 Research Methodology
  - 1.3.2 Research Process
  - 1.3.3 Market Breakdown and Data Triangulation
  - 1.3.4 Base Year
  - 1.3.5 Report Assumptions & Caveats

### **2 ELECTRONIC SPECIAL PHOSPHINE (PH3) MARKET OVERVIEW**

- 2.1 Global Market Overview
  - 2.1.1 Global Electronic Special Phosphine (PH3) Market Size (M USD) Estimates and Forecasts (2020-2035)
  - 2.1.2 Global Electronic Special Phosphine (PH3) Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

### **3 ELECTRONIC SPECIAL PHOSPHINE (PH3) MARKET COMPETITIVE LANDSCAPE**

- 3.1 Company Assessment Quadrant
- 3.2 Global Electronic Special Phosphine (PH3) Product Life Cycle
- 3.3 Global Electronic Special Phosphine (PH3) Sales by Manufacturers (2020-2025)
- 3.4 Global Electronic Special Phosphine (PH3) Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Electronic Special Phosphine (PH3) Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Electronic Special Phosphine (PH3) Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Electronic Special Phosphine (PH3) Market Competitive Situation and Trends

- 3.8.1 Electronic Special Phosphine (PH3) Market Concentration Rate
- 3.8.2 Global 5 and 10 Largest Electronic Special Phosphine (PH3) Players Market Share by Revenue
- 3.8.3 Mergers & Acquisitions, Expansion

#### **4 ELECTRONIC SPECIAL PHOSPHINE (PH3) INDUSTRY CHAIN ANALYSIS**

- 4.1 Electronic Special Phosphine (PH3) Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

#### **5 THE DEVELOPMENT AND DYNAMICS OF ELECTRONIC SPECIAL PHOSPHINE (PH3) MARKET**

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
  - 5.4.1 New Product Developments
  - 5.4.2 Mergers & Acquisitions
  - 5.4.3 Expansions
  - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
  - 5.5.1 Industry Policies Analysis
  - 5.5.2 Economic Environment Analysis
  - 5.5.3 Social Environment Analysis
  - 5.5.4 Technological Environment Analysis
- 5.6 Global Electronic Special Phosphine (PH3) Market Porter's Five Forces Analysis
  - 5.6.1 Global Trade Frictions
  - 5.6.2 U.S. Tariff Policy ? April 2025
  - 5.6.3 Global Trade Frictions and Their Impacts to Electronic Special Phosphine (PH3) Market
- 5.7 ESG Ratings of Leading Companies

#### **6 ELECTRONIC SPECIAL PHOSPHINE (PH3) MARKET SEGMENTATION BY TYPE**

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Electronic Special Phosphine (PH3) Sales Market Share by Type

(2020-2025)

6.3 Global Electronic Special Phosphine (PH3) Market Size by Type (2020-2025)

6.4 Global Electronic Special Phosphine (PH3) Price by Type (2020-2025)

## **7 ELECTRONIC SPECIAL PHOSPHINE (PH3) MARKET SEGMENTATION BY APPLICATION**

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Electronic Special Phosphine (PH3) Market Sales by Application (2020-2025)

7.3 Global Electronic Special Phosphine (PH3) Market Size (M USD) by Application (2020-2025)

7.4 Global Electronic Special Phosphine (PH3) Sales Growth Rate by Application (2020-2025)

## **8 ELECTRONIC SPECIAL PHOSPHINE (PH3) MARKET SALES BY REGION**

8.1 Global Electronic Special Phosphine (PH3) Sales by Region

8.1.1 Global Electronic Special Phosphine (PH3) Sales by Region

8.1.2 Global Electronic Special Phosphine (PH3) Sales Market Share by Region

8.2 Global Electronic Special Phosphine (PH3) Market Size by Region

8.2.1 Global Electronic Special Phosphine (PH3) Market Size by Region

8.2.2 Global Electronic Special Phosphine (PH3) Market Size by Region

8.3 North America

8.3.1 North America Electronic Special Phosphine (PH3) Sales by Country

8.3.2 North America Electronic Special Phosphine (PH3) Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Electronic Special Phosphine (PH3) Sales by Country

8.4.2 Europe Electronic Special Phosphine (PH3) Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Electronic Special Phosphine (PH3) Sales by Region

- 8.5.2 Asia Pacific Electronic Special Phosphine (PH3) Market Size by Region
- 8.5.3 China Market Overview
- 8.5.4 Japan Market Overview
- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
  - 8.6.1 South America Electronic Special Phosphine (PH3) Sales by Country
  - 8.6.2 South America Electronic Special Phosphine (PH3) Market Size by Country
  - 8.6.3 Brazil Market Overview
  - 8.6.4 Argentina Market Overview
  - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
  - 8.7.1 Middle East and Africa Electronic Special Phosphine (PH3) Sales by Region
  - 8.7.2 Middle East and Africa Electronic Special Phosphine (PH3) Market Size by Region
  - 8.7.3 Saudi Arabia Market Overview
  - 8.7.4 UAE Market Overview
  - 8.7.5 Egypt Market Overview
  - 8.7.6 Nigeria Market Overview
  - 8.7.7 South Africa Market Overview

## **9 ELECTRONIC SPECIAL PHOSPHINE (PH3) MARKET PRODUCTION BY REGION**

- 9.1 Global Production of Electronic Special Phosphine (PH3) by Region(2020-2025)
- 9.2 Global Electronic Special Phosphine (PH3) Revenue Market Share by Region (2020-2025)
- 9.3 Global Electronic Special Phosphine (PH3) Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Electronic Special Phosphine (PH3) Production
  - 9.4.1 North America Electronic Special Phosphine (PH3) Production Growth Rate (2020-2025)
  - 9.4.2 North America Electronic Special Phosphine (PH3) Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Electronic Special Phosphine (PH3) Production
  - 9.5.1 Europe Electronic Special Phosphine (PH3) Production Growth Rate (2020-2025)
  - 9.5.2 Europe Electronic Special Phosphine (PH3) Production, Revenue, Price and Gross Margin (2020-2025)

## 9.6 Japan Electronic Special Phosphine (PH3) Production (2020-2025)

9.6.1 Japan Electronic Special Phosphine (PH3) Production Growth Rate (2020-2025)

9.6.2 Japan Electronic Special Phosphine (PH3) Production, Revenue, Price and Gross Margin (2020-2025)

## 9.7 China Electronic Special Phosphine (PH3) Production (2020-2025)

9.7.1 China Electronic Special Phosphine (PH3) Production Growth Rate (2020-2025)

9.7.2 China Electronic Special Phosphine (PH3) Production, Revenue, Price and Gross Margin (2020-2025)

## 10 KEY COMPANIES PROFILE

### 10.1 Entegris

10.1.1 Entegris Basic Information

10.1.2 Entegris Electronic Special Phosphine (PH3) Product Overview

10.1.3 Entegris Electronic Special Phosphine (PH3) Product Market Performance

10.1.4 Entegris Business Overview

10.1.5 Entegris SWOT Analysis

10.1.6 Entegris Recent Developments

### 10.2 Linde plc

10.2.1 Linde plc Basic Information

10.2.2 Linde plc Electronic Special Phosphine (PH3) Product Overview

10.2.3 Linde plc Electronic Special Phosphine (PH3) Product Market Performance

10.2.4 Linde plc Business Overview

10.2.5 Linde plc SWOT Analysis

10.2.6 Linde plc Recent Developments

### 10.3 Versum Materials

10.3.1 Versum Materials Basic Information

10.3.2 Versum Materials Electronic Special Phosphine (PH3) Product Overview

10.3.3 Versum Materials Electronic Special Phosphine (PH3) Product Market Performance

10.3.4 Versum Materials Business Overview

10.3.5 Versum Materials SWOT Analysis

10.3.6 Versum Materials Recent Developments

### 10.4 Taiyo Nippon Sanso

10.4.1 Taiyo Nippon Sanso Basic Information

10.4.2 Taiyo Nippon Sanso Electronic Special Phosphine (PH3) Product Overview

10.4.3 Taiyo Nippon Sanso Electronic Special Phosphine (PH3) Product Market Performance

10.4.4 Taiyo Nippon Sanso Business Overview

10.4.5 Taiyo Nippon Sanso Recent Developments

10.5 Solvay

10.5.1 Solvay Basic Information

10.5.2 Solvay Electronic Special Phosphine (PH3) Product Overview

10.5.3 Solvay Electronic Special Phosphine (PH3) Product Market Performance

10.5.4 Solvay Business Overview

10.5.5 Solvay Recent Developments

10.6 Nata Opto-electronic

10.6.1 Nata Opto-electronic Basic Information

10.6.2 Nata Opto-electronic Electronic Special Phosphine (PH3) Product Overview

10.6.3 Nata Opto-electronic Electronic Special Phosphine (PH3) Product Market

Performance

10.6.4 Nata Opto-electronic Business Overview

10.6.5 Nata Opto-electronic Recent Developments

10.7 Shanghai GenTech

10.7.1 Shanghai GenTech Basic Information

10.7.2 Shanghai GenTech Electronic Special Phosphine (PH3) Product Overview

10.7.3 Shanghai GenTech Electronic Special Phosphine (PH3) Product Market

Performance

10.7.4 Shanghai GenTech Business Overview

10.7.5 Shanghai GenTech Recent Developments

## **11 ELECTRONIC SPECIAL PHOSPHINE (PH3) MARKET FORECAST BY REGION**

11.1 Global Electronic Special Phosphine (PH3) Market Size Forecast

11.2 Global Electronic Special Phosphine (PH3) Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Electronic Special Phosphine (PH3) Market Size Forecast by Country

11.2.3 Asia Pacific Electronic Special Phosphine (PH3) Market Size Forecast by

Region

11.2.4 South America Electronic Special Phosphine (PH3) Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Electronic Special Phosphine (PH3) by Country

## **12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)**

12.1 Global Electronic Special Phosphine (PH3) Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Electronic Special Phosphine (PH3) by Type

(2026-2035)

12.1.2 Global Electronic Special Phosphine (PH3) Market Size Forecast by Type

(2026-2035)

12.1.3 Global Forecasted Price of Electronic Special Phosphine (PH3) by Type

(2026-2035)

12.2 Global Electronic Special Phosphine (PH3) Market Forecast by Application

(2026-2035)

12.2.1 Global Electronic Special Phosphine (PH3) Sales (K MT) Forecast by Application

12.2.2 Global Electronic Special Phosphine (PH3) Market Size (M USD) Forecast by Application (2026-2035)

## **13 CONCLUSION AND KEY FINDINGS**

## List Of Tables

### LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global Electronic Special Phosphine (PH3) Market Size by Type (M USD)
- Table 4. Global Electronic Special Phosphine (PH3) Market Size by Application
- Table 5. Electronic Special Phosphine (PH3) Market Size Comparison by Region (M USD)
- Table 6. Global Electronic Special Phosphine (PH3) Sales (K MT) by Manufacturers (2020-2025)
- Table 7. Global Electronic Special Phosphine (PH3) Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global Electronic Special Phosphine (PH3) Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global Electronic Special Phosphine (PH3) Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Electronic Special Phosphine (PH3) as of 2025)
- Table 11. Global Market Electronic Special Phosphine (PH3) Average Price (USD/KG) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global Electronic Special Phosphine (PH3) Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. Electronic Special Phosphine (PH3) Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 26. Global Electronic Special Phosphine (PH3) Sales by Type (K MT)

Table 27. Global Electronic Special Phosphine (PH3) Market Size by Type (M USD)

Table 28. Global Electronic Special Phosphine (PH3) Sales (K MT) by Type  
(2020-2025)

Table 29. Global Electronic Special Phosphine (PH3) Sales Market Share by Type  
(2020-2025)

Table 30. Global Electronic Special Phosphine (PH3) Market Size (M USD) by Type  
(2020-2025)

Table 31. Global Electronic Special Phosphine (PH3) Market Share by Type  
(2020-2025)

Table 32. Global Electronic Special Phosphine (PH3) Price (USD/KG) by Type  
(2020-2025)

Table 33. Global Electronic Special Phosphine (PH3) Sales (K MT) by Application

Table 34. Global Electronic Special Phosphine (PH3) Market Size by Application

Table 35. Global Electronic Special Phosphine (PH3) Sales by Application (2020-2025)  
& (K MT)

Table 36. Global Electronic Special Phosphine (PH3) Sales Market Share by  
Application (2020-2025)

Table 37. Global Electronic Special Phosphine (PH3) Market Size by Application  
(2020-2025) & (M USD)

Table 38. Global Electronic Special Phosphine (PH3) Market Share by Application  
(2020-2025)

Table 39. Global Electronic Special Phosphine (PH3) Sales Growth Rate by Application  
(2020-2025)

Table 40. Global Electronic Special Phosphine (PH3) Sales by Region (2020-2025) & (K  
MT)

Table 41. Global Electronic Special Phosphine (PH3) Sales Market Share by Region  
(2020-2025)

Table 42. Global Electronic Special Phosphine (PH3) Market Size by Region  
(2020-2025) & (M USD)

Table 43. Global Electronic Special Phosphine (PH3) Market Size by Region  
(2020-2025)

Table 44. North America Electronic Special Phosphine (PH3) Sales by Country  
(2020-2025) & (K MT)

Table 45. North America Electronic Special Phosphine (PH3) Market Size by Country  
(2020-2025) & (M USD)

Table 46. Europe Electronic Special Phosphine (PH3) Sales by Country (2020-2025) &  
(K MT)

Table 47. Europe Electronic Special Phosphine (PH3) Market Size by Country  
(2020-2025) & (M USD)

- Table 48. Asia Pacific Electronic Special Phosphine (PH3) Sales by Region (2020-2025) & (K MT)
- Table 49. Asia Pacific Electronic Special Phosphine (PH3) Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Electronic Special Phosphine (PH3) Sales by Country (2020-2025) & (K MT)
- Table 51. South America Electronic Special Phosphine (PH3) Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Electronic Special Phosphine (PH3) Sales by Region (2020-2025) & (K MT)
- Table 53. Middle East and Africa Electronic Special Phosphine (PH3) Market Size by Region (2020-2025) & (M USD)
- Table 54. Global Electronic Special Phosphine (PH3) Production (K MT) by Region(2020-2025)
- Table 55. Global Electronic Special Phosphine (PH3) Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global Electronic Special Phosphine (PH3) Revenue Market Share by Region (2020-2025)
- Table 57. Global Electronic Special Phosphine (PH3) Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 58. North America Electronic Special Phosphine (PH3) Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 59. Europe Electronic Special Phosphine (PH3) Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 60. Japan Electronic Special Phosphine (PH3) Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 61. China Electronic Special Phosphine (PH3) Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 62. Entegris Basic Information
- Table 63. Entegris Electronic Special Phosphine (PH3) Product Overview
- Table 64. Entegris Electronic Special Phosphine (PH3) Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 65. Entegris Business Overview
- Table 66. Entegris SWOT Analysis
- Table 67. Entegris Recent Developments
- Table 68. Linde plc Basic Information
- Table 69. Linde plc Electronic Special Phosphine (PH3) Product Overview
- Table 70. Linde plc Electronic Special Phosphine (PH3) Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 71. Linde plc Business Overview

Table 72. Linde plc SWOT Analysis

Table 73. Linde plc Recent Developments

Table 74. Versum Materials Basic Information

Table 75. Versum Materials Electronic Special Phosphine (PH3) Product Overview

Table 76. Versum Materials Electronic Special Phosphine (PH3) Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 77. Versum Materials Business Overview

Table 78. Versum Materials SWOT Analysis

Table 79. Versum Materials Recent Developments

Table 80. Taiyo Nippon Sanso Basic Information

Table 81. Taiyo Nippon Sanso Electronic Special Phosphine (PH3) Product Overview

Table 82. Taiyo Nippon Sanso Electronic Special Phosphine (PH3) Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 83. Taiyo Nippon Sanso Business Overview

Table 84. Taiyo Nippon Sanso Recent Developments

Table 85. Solvay Basic Information

Table 86. Solvay Electronic Special Phosphine (PH3) Product Overview

Table 87. Solvay Electronic Special Phosphine (PH3) Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 88. Solvay Business Overview

Table 89. Solvay Recent Developments

Table 90. Nata Opto-electronic Basic Information

Table 91. Nata Opto-electronic Electronic Special Phosphine (PH3) Product Overview

Table 92. Nata Opto-electronic Electronic Special Phosphine (PH3) Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 93. Nata Opto-electronic Business Overview

Table 94. Nata Opto-electronic Recent Developments

Table 95. Shanghai GenTech Basic Information

Table 96. Shanghai GenTech Electronic Special Phosphine (PH3) Product Overview

Table 97. Shanghai GenTech Electronic Special Phosphine (PH3) Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 98. Shanghai GenTech Business Overview

Table 99. Shanghai GenTech Recent Developments

Table 100. Global Electronic Special Phosphine (PH3) Sales Forecast by Region (2026-2035) & (K MT)

Table 101. Global Electronic Special Phosphine (PH3) Market Size Forecast by Region (2026-2035) & (M USD)

Table 102. North America Electronic Special Phosphine (PH3) Sales Forecast by

Country (2026-2035) & (K MT)

Table 103. North America Electronic Special Phosphine (PH3) Market Size Forecast by Country (2026-2035) & (M USD)

Table 104. Europe Electronic Special Phosphine (PH3) Sales Forecast by Country (2026-2035) & (K MT)

Table 105. Europe Electronic Special Phosphine (PH3) Market Size Forecast by Country (2026-2035) & (M USD)

Table 106. Asia Pacific Electronic Special Phosphine (PH3) Sales Forecast by Region (2026-2035) & (K MT)

Table 107. Asia Pacific Electronic Special Phosphine (PH3) Market Size Forecast by Region (2026-2035) & (M USD)

Table 108. South America Electronic Special Phosphine (PH3) Sales Forecast by Country (2026-2035) & (K MT)

Table 109. South America Electronic Special Phosphine (PH3) Market Size Forecast by Country (2026-2035) & (M USD)

Table 110. Middle East and Africa Electronic Special Phosphine (PH3) Sales Forecast by Country (2026-2035) & (Units)

Table 111. Middle East and Africa Electronic Special Phosphine (PH3) Market Size Forecast by Country (2026-2035) & (M USD)

Table 112. Global Electronic Special Phosphine (PH3) Sales Forecast by Type (2026-2035) & (K MT)

Table 113. Global Electronic Special Phosphine (PH3) Market Size Forecast by Type (2026-2035) & (M USD)

Table 114. Global Electronic Special Phosphine (PH3) Price Forecast by Type (2026-2035) & (USD/KG)

Table 115. Global Electronic Special Phosphine (PH3) Sales (K MT) Forecast by Application (2026-2035)

Table 116. Global Electronic Special Phosphine (PH3) Market Size Forecast by Application (2026-2035) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of Electronic Special Phosphine (PH3)
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Electronic Special Phosphine (PH3) Market Size (M USD), 2025-2035
- Figure 5. Global Electronic Special Phosphine (PH3) Market Size (M USD) (2020-2035)
- Figure 6. Global Electronic Special Phosphine (PH3) Sales (K MT) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Electronic Special Phosphine (PH3) Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Electronic Special Phosphine (PH3) Product Life Cycle
- Figure 13. Electronic Special Phosphine (PH3) Sales Share by Manufacturers in 2025
- Figure 14. Global Electronic Special Phosphine (PH3) Revenue Share by Manufacturers in 2025
- Figure 15. Electronic Special Phosphine (PH3) Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Electronic Special Phosphine (PH3) Average Price (USD/KG) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Electronic Special Phosphine (PH3) Revenue in 2025
- Figure 18. Industry Chain Map of Electronic Special Phosphine (PH3)
- Figure 19. Global Electronic Special Phosphine (PH3) Market PEST Analysis
- Figure 20. Global Electronic Special Phosphine (PH3) Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Electronic Special Phosphine (PH3) Market Share by Type
- Figure 27. Sales Market Share of Electronic Special Phosphine (PH3) by Type (2020-2025)
- Figure 28. Sales Market Share of Electronic Special Phosphine (PH3) by Type in 2025
- Figure 29. Market Share of Electronic Special Phosphine (PH3) by Type (2020-2025)

- Figure 30. Market Share of Electronic Special Phosphine (PH3) by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Electronic Special Phosphine (PH3) Market Share by Application
- Figure 33. Global Electronic Special Phosphine (PH3) Sales Market Share by Application (2020-2025)
- Figure 34. Global Electronic Special Phosphine (PH3) Sales Market Share by Application in 2025
- Figure 35. Global Electronic Special Phosphine (PH3) Market Share by Application (2020-2025)
- Figure 36. Global Electronic Special Phosphine (PH3) Market Share by Application in 2025
- Figure 37. Global Electronic Special Phosphine (PH3) Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Electronic Special Phosphine (PH3) Sales Market Share by Region (2020-2025)
- Figure 39. Global Electronic Special Phosphine (PH3) Market Size by Region (2020-2025)
- Figure 40. North America Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)
- Figure 41. North America Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)
- Figure 42. North America Electronic Special Phosphine (PH3) Sales Market Share by Country in 2024
- Figure 43. North America Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Electronic Special Phosphine (PH3) Market Size by Country in 2024
- Figure 45. U.S. Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)
- Figure 46. U.S. Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Electronic Special Phosphine (PH3) Sales (K MT) and Growth Rate (2020-2025)
- Figure 48. Canada Electronic Special Phosphine (PH3) Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Electronic Special Phosphine (PH3) Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Electronic Special Phosphine (PH3) Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)

Figure 52. Europe Electronic Special Phosphine (PH3) Sales Market Share by Country in 2024

Figure 53. Europe Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Electronic Special Phosphine (PH3) Market Size by Country in 2024

Figure 55. Germany Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Electronic Special Phosphine (PH3) Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Electronic Special Phosphine (PH3) Sales Market Share by Region in 2024

Figure 67. Asia Pacific Electronic Special Phosphine (PH3) Market Size by Region in 2024

Figure 68. China Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Electronic Special Phosphine (PH3) Sales and Growth Rate (K MT)

Figure 79. South America Electronic Special Phosphine (PH3) Sales Market Share by Country in 2024

Figure 80. South America Electronic Special Phosphine (PH3) Market Size and Growth Rate (M USD)

Figure 81. South America Electronic Special Phosphine (PH3) Market Size by Country in 2024

Figure 82. Brazil Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Electronic Special Phosphine (PH3) Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Electronic Special Phosphine (PH3) Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Electronic Special Phosphine (PH3) Market Size and

Growth Rate (M USD)

Figure 91. Middle East and Africa Electronic Special Phosphine (PH3) Market Size by Region in 2024

Figure 92. Saudi Arabia Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Electronic Special Phosphine (PH3) Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Electronic Special Phosphine (PH3) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Electronic Special Phosphine (PH3) Production Market Share by Region (2020-2025)

Figure 103. North America Electronic Special Phosphine (PH3) Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Electronic Special Phosphine (PH3) Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Electronic Special Phosphine (PH3) Production (K MT) Growth Rate (2020-2025)

Figure 106. China Electronic Special Phosphine (PH3) Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Electronic Special Phosphine (PH3) Sales Forecast by Volume (2020-2035) & (K MT)

Figure 108. Global Electronic Special Phosphine (PH3) Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Electronic Special Phosphine (PH3) Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Electronic Special Phosphine (PH<sub>3</sub>) Market Share Forecast by Type (2026-2035)

Figure 111. Global Electronic Special Phosphine (PH<sub>3</sub>) Sales Forecast by Application (2026-2035)

Figure 112. Global Electronic Special Phosphine (PH<sub>3</sub>) Market Share Forecast by Application (2026-2035)

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