

Global Phosphine Gas Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Phosphine Gas market size will reach 89.71 Million USD in 2025 and is projected to reach 138.40 Million USD by 2032, with a CAGR of 6.39% (2025-2032). Notably, the China Phosphine Gas market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Phosphine gas (PH₃) is a colorless, flammable, and highly toxic gas composed of one phosphorus atom and three hydrogen atoms. It is produced through various industrial processes, including the manufacture of semiconductors, fumigation, and as a byproduct of certain chemical reactions. Phosphine is notable for its role in the electronics industry, where it is used in the production of semiconductor materials. However, phosphine is perhaps best known for its use as a fumigant for stored grain and other commodities to control pests. Due to its extreme toxicity, phosphine gas poses significant health risks and must be handled with great care. Inhalation or exposure to phosphine can result in respiratory distress, nausea, and, in severe cases, can be fatal. Given its potential dangers, the use and handling of phosphine gas are subject to strict safety regulations and precautions.

The major global manufacturers of Phosphine Gas include Entegris, Linde plc, Versum Materials, Taiyo Nippon Sanso, Solvay, Nata Opto-electronic, Shanghai GenTech, etc. The global players competition landscape in this report is divided into three tiers. The

first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Phosphine Gas. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Phosphine Gas market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Phosphine Gas market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Phosphine Gas industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Phosphine Gas Include:

Entegris

Linde plc

Versum Materials

Taiyo Nippon Sanso

Solvay

Nata Opto-electronic

Shanghai GenTech

Phosphine Gas Product Segment Include:

4N (99.99%)

5N (99.999%)

6N (99.9999%)

Phosphine Gas Product Application Include:

Semiconductor Industry

Photovoltaic Industry

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global Phosphine Gas Capacity and Production Analysis

Chapter 3: Global Phosphine Gas Industry PESTEL Analysis

Chapter 4: Global Phosphine Gas Industry Porter's Five Forces Analysis

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