

Global Hexaphenoxycyclotriphosphazene(HPCP) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Hexaphenoxycyclotriphosphazene(HPCP) market size is expected to reach \$ 251 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

In 2025, global sales volume for Hexaphenoxycyclotriphosphazene (HPCP) reached 8,000 tons, with an average price of \$17,142 per ton.

Hexaphenoxycyclotriphosphazene is a halogen-free organic-inorganic hybrid flame retardant with the chemical formula $C_6H_5N_3O_3P_3$ and a molecular weight of approximately 693.6. It appears as a white to pale yellow crystalline powder with a melting point of 104-115°C and a thermal decomposition temperature exceeding 330°C; it exhibits excellent thermal stability, low volatility, low smoke emission, and good electrical insulation properties. Its core structure consists of a six-membered ring formed by alternating phosphorus and nitrogen atoms (the cyclotriphosphazene backbone), with a phenoxy substituent attached to each phosphorus atom.

The core raw materials for Hexaphenoxycyclotriphosphazene can be broadly categorized into two groups: primary raw materials and auxiliary raw materials. Primary raw materials include Hexachlorocyclotriphosphazene (HCCP, an intermediate) and phenol. HCCP is synthesized via a high-temperature reflux reaction between phosphorus pentachloride (PCl_5) and ammonium chloride (NH_4Cl) in a chlorobenzene solvent, serving as the critical precursor for HPCP synthesis; phenol, meanwhile, is utilized in a nucleophilic substitution reaction to sequentially replace the six chlorine atoms on the HCCP ring. Auxiliary raw materials encompass sodium hydroxide (or acid scavengers such as potassium carbonate), organic solvents (e.g., chlorobenzene, acetonitrile, THF), phase-transfer catalysts (e.g., tetrabutylammonium bromide,

polyethylene glycol), as well as ethanol, sulfuric acid, and alkaline solutions required for downstream processing. Raw material costs are significantly influenced by fluctuations within the petrochemical industry chain: phenol prices correlate closely with the crude oil market; phosphorus pentachloride costs are constrained by the prices of yellow phosphorus and chlorine gas; and Hexachlorocyclotriphosphazene² as a specialized intermediate² has a supply stability and pricing structure that directly determine the production economics of HPCP. Regarding cost structure, raw material costs account for 50%–60% of total production costs, with hexachlorocyclotriphosphazene and phenol representing the two largest individual expenditure items. Energy and solvent recovery costs account for approximately 15%–20%; although solvents such as chlorobenzene can be recycled, the energy consumption associated with their recovery via distillation is relatively high. Labor costs and equipment depreciation account for roughly 10%–15%; traditional processes involve multiple reaction steps and repeated washing and extraction cycles, placing high demands on reaction vessels, distillation apparatus, and centrifugal separation equipment. Environmental treatment costs account for approximately 5%–10%, covering the treatment of saline wastewater, the recovery of organic solvent exhaust gases, and the disposal of byproducts such as ammonium chloride. Notably, the adoption of a 'one-pot' aqueous-phase process can significantly reduce both solvent consumption and the cost of acid scavengers, while boosting product yield to over 95%; this results in a 20%–30% reduction in unit production costs and currently represents the mainstream technological route for industrial-scale production. Overall, the cost of HPCP is significantly higher than that of traditional brominated flame retardants (by approximately 30%–40%); however, its halogen-free, eco-friendly characteristics and exceptional flame-retardant efficiency endow it with an irreplaceable competitive advantage within the high-end electronics and automotive sectors.

This report studies the global Hexaphenoxycyclotriphosphazene(HPCP) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hexaphenoxycyclotriphosphazene(HPCP) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Hexaphenoxycyclotriphosphazene(HPCP) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hexaphenoxycyclotriphosphazene(HPCP) total production and demand,

2021-2032, (K MT)

Global Hexaphenoxycyclotriphosphazene(HPCP) total production value, 2021-2032, (USD Million)

Global Hexaphenoxycyclotriphosphazene(HPCP) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Hexaphenoxycyclotriphosphazene(HPCP) consumption by region & country, CAGR, 2021-2032 & (K MT)

U.S. VS China: Hexaphenoxycyclotriphosphazene(HPCP) domestic production, consumption, key domestic manufacturers and share

Global Hexaphenoxycyclotriphosphazene(HPCP) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Hexaphenoxycyclotriphosphazene(HPCP) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Hexaphenoxycyclotriphosphazene(HPCP) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Hexaphenoxycyclotriphosphazene(HPCP) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Otsuka Chemical Co., Ltd. (JP), FUSHIMI Pharmaceutical Co., Ltd. (JP), Zhejiang Wansheng Co., Ltd. (CN), Shandong Taixing New Materials Co., Ltd. (CN), Weihai Jinwei Chemical Industry Co., Ltd. (CN), Go Yen Chemical Industrial Co., Ltd. (TW), Shouguang Pu'er Chemical Co., Ltd. (CN), Shandong Hanfeng New Material Technology Co., Ltd. (CN), Hubei Jusheng Technology Co., Ltd. (CN), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Hexaphenoxycyclotriphosphazene(HPCP) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (USD/MT) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the

forecast year.

Global Hexaphenoxycyclotriphosphazene(HPCP) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hexaphenoxycyclotriphosphazene(HPCP) Market, Segmentation by Type:

Purity?98%

Purity?99%

Global Hexaphenoxycyclotriphosphazene(HPCP) Market, Segmentation by Product Forms:

Powder

Masterbatch

Solution

Global Hexaphenoxycyclotriphosphazene(HPCP) Market, Segmentation by Processes:

Traditional Solvent Method

Aqueous Phase Method

Global Hexaphenoxycyclotriphosphazene(HPCP) Market, Segmentation by Application:

Electronics & Electrical

Plastics Modification

Coatings & Paints

Others

Companies Profiled:

Otsuka Chemical Co., Ltd. (JP)

FUSHIMI Pharmaceutical Co., Ltd. (JP)

Zhejiang Wansheng Co., Ltd. (CN)

Shandong Taixing New Materials Co., Ltd. (CN)

Weihai Jinwei Chemical Industry Co., Ltd. (CN)

Go Yen Chemical Industrial Co., Ltd. (TW)

Shouguang Pu'er Chemical Co., Ltd. (CN)

Shandong Hanfeng New Material Technology Co., Ltd. (CN)

Hubei Jusheng Technology Co., Ltd. (CN)

Key Questions Answered:

1. How big is the global Hexaphenoxycyclotriphosphazene(HPCP) market?

2. What is the demand of the global Hexaphenoxycyclotriphosphazene(HPCP) market?
3. What is the year over year growth of the global Hexaphenoxycyclotriphosphazene(HPCP) market?
4. What is the production and production value of the global Hexaphenoxycyclotriphosphazene(HPCP) market?
5. Who are the key producers in the global Hexaphenoxycyclotriphosphazene(HPCP) market?
6. What are the growth factors driving the market demand?

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