

Global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) market size is expected to reach \$ 105 million by 2032, rising at a market growth of 3.3% CAGR during the forecast period (2026-2032).

Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) is a green and environmentally friendly quaternary phosphate fungicide with good water solubility, low freezing point, and stable chemical properties. It has strong killing properties against bacteria and algae and is widely used in water treatment, oil fields, papermaking and other industries. As a low-toxic, low-foaming environmentally friendly fungicide, it quickly degrades into harmless substances after use and has little impact on the environment.

The upstream supply chain primarily comprises materials such as yellow phosphorus and its downstream phosphorus-based derivatives, formaldehyde, sulfuric acid, water, and liquid caustic soda. The production process typically centers on the synthesis of hydroxymethyl phosphonium salts, acidification and salt formation, concentration adjustment, impurity control, and stabilization treatments; the commercial product is predominantly sold as a 75% aqueous solution. Downstream applications are primarily directed toward industries such as oil and gas extraction, water treatment, papermaking, and textiles. Within this context, the oilfield and industrial circulating water sectors place a greater emphasis on bactericidal efficiency, the ability to control sulfate-reducing bacteria, and environmental biodegradability, whereas the textile sector focuses more on the flame-retardant efficacy of phosphorus-based finishes and their compatibility with subsequent finishing processes.

In 2025, global sales volume for tetrakis(hydroxymethyl)phosphonium sulfate is

projected to reach approximately 50,000 tons, with a global average price ranging from \$1,400 to \$1,800 per ton; the gross profit margins for major industry manufacturers are expected to fall within the range of 18% to 30%.

The core drivers of the Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) industry stem from the growing demand for high-efficiency, low-residue, and environmentally friendly non-oxidizing biocides across sectors such as oil and gas extraction, industrial circulating water systems, papermaking, and certain textile finishing applications. This demand is particularly pronounced in oilfield water injection, produced water treatment, pipelines, storage tanks, and fracturing fluid systems, where sulfate-reducing bacteria, biofilms, and microbial corrosion can lead to equipment degradation, reservoir acidification, and operational safety hazards. THPS enjoys a foundation of sustained demand due to its rapid biocidal action, its efficacy against sulfate-reducing bacteria and a wide spectrum of other microorganisms, and its applicability in both oil and gas operations and industrial water systems. In the future, the competitive focus among leading enterprises is expected to shift from the mere supply of standard aqueous THPS solutions toward capabilities in ensuring stable product concentrations, rigorous impurity control, synergistic formulation development, on-site technical support, and regulatory-compliant delivery.

This report studies the global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) 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 Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) total production and demand, 2021-2032, (Tons)

Global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) total production value, 2021-2032, (USD Million)

Global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) consumption by region &

country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) domestic production, consumption, key domestic manufacturers and share

Global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) 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 LANXESS, Syensqo, Hubei Xingfa Chemicals Group, IRO Water Treatment, Changshu New-Tech Chemicals, Shandong Taihe Chemicals, Shandong Kairui Chemistry, 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 Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) Market, Segmentation by Type:

Purity?75%

Other

Global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) Market, Segmentation by Formulation:

Single-Component

Compound

Global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) Market, Segmentation by Iron Ion Content:

Fe ? 20 ppm

Fe ? 15 ppm

Global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) Market, Segmentation by Application:

Water Treatment

Oil Field

Papermaking

Aquaculture

Other

Companies Profiled:

LANXESS

Syensqo

Hubei Xingfa Chemicals Group

IRO Water Treatment

Changshu New-Tech Chemicals

Shandong Taihe Chemicals

Shandong Kairui Chemistry

Key Questions Answered:

1. How big is the global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) market?
2. What is the demand of the global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) market?
3. What is the year over year growth of the global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) market?
4. What is the production and production value of the global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) market?
5. Who are the key producers in the global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) market?
6. What are the growth factors driving the market demand?

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