

Global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) Market Growth 2026-2032

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Abstracts

The global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) market size is predicted to grow from US\$ 80.71 million in 2025 to US\$ 101 million in 2032; it is expected to grow at a CAGR of 3.5% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the ?Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) Industry Forecast? looks at past sales and reviews total world Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) sales in 2025, providing a comprehensive analysis by region and market sector of projected Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) sales for 2026 through 2032. With Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) industry.

This Insight Report provides a comprehensive analysis of the global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) and

breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS).

This report presents a comprehensive overview, market shares, and growth opportunities of Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Purity?75%

Other

Segmentation by Formulation:

Single-Component

Compound

Segmentation by Iron Ion Content:

Fe ? 20 ppm

Fe ? 15 ppm

Segmentation by Application:

Water Treatment

Oil Field

Papermaking

Aquaculture

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

LANXESS

Syensqo

Hubei Xingfa Chemicals Group

IRO Water Treatment

Changshu New-Tech Chemicals

Shandong Taihe Chemicals

Shandong Kairui Chemistry

Key Questions Addressed in this Report

What is the 10-year outlook for the global Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) market?

What factors are driving Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) market opportunities vary by end market size?

How does Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS) break out by Type, by Application?

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