

Tetrakis(hydroxymethyl)phosphonium Sulfate (THPS 75%)

Aqueous phosphonium-salt ingredient for authorized industrial microbial-control and selected textile-treatment systems.

CAS No. 55566-30-8	EC / List No. 259-709-0	Transport Class 8 — Corrosive; subsidiary risk 6.1
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Product Information

THPS 75% is an aqueous solution of tetrakis(hydroxymethyl)phosphonium sulfate, CAS 55566-30-8. The phosphonium sulfate salt differs from tetrakis(hydroxymethyl)phosphonium chloride. Compare solution concentration and chemical identity when choosing a grade for process or formulation development.

Specifications

Parameter	Specification
Appearance	Clear colorless viscous liquid
Assay	≥75.1 %
pH	3.0–5.0
Viscosity at 25°C	30–36 mPa·s
Relative density at 25°C	1.350–1.420
Iron	≤15 mg/kg

Supply specifications follow the local 2026 ZXCHEM TDS and apply to the stated commercial grade. Test suitability in the intended process and complete formulation.

Typical Properties

Property	Typical Value
Molecular formula	C ₈ H ₂₄ O ₁₂ P ₂ S
Molecular weight	406.28 g/mol

Applications

Industrial process microbial control: Raw ingredient for authorized water and process treatment. Evaluate water chemistry, exposure conditions, process compatibility and local use requirements.

Oilfield and paper-process formulations: Aqueous ingredient for selected authorized treatment systems. Assess fluid compatibility, dosing equipment, performance and effluent controls.

Textile treatment development: Phosphonium ingredient for selected flame-retardant treatment recipes. Test cure conditions, wash durability and final-article fire performance.

Packaging / Storage

Item	Information
Packing	250 kg drums / 1,400 kg IBC
Storage	Keep sealed and upright in a shaded, dry, ventilated area with restricted access. Protect from heat and segregate from acids, bases, oxidizers and reactive metals.
Handling	Use closed transfer and suitable ventilation. Prevent inhalation and splashes; wear compatible chemical gloves, splash goggles, face protection and protective clothing. Maintain emergency washing facilities.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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