

Potassium Monopersulfate Compound

Acidic peroxymonosulfate triple-salt oxidant for water-treatment and industrial oxidation formulations.

CAS No. 70693-62-8	EC / List No. 274-778-7	Transport Class 8 — Corrosive
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Product Information

Potassium monopersulfate compound is the triple salt $2\text{KHSO}_5 \cdot \text{KHSO}_4 \cdot \text{K}_2\text{SO}_4$. Its oxidizing functionality comes from potassium hydrogen peroxymonosulfate; active-oxygen content and KHSO_5 content are different measurements and should be compared on the correct basis.

Specifications

Parameter	Specification
Appearance	White powder or granules
Active oxygen	$\geq 4.50\%$
Active component, KHSO_5	$\geq 42.80\%$
Water solubility at 20°C	256 g/L
Moisture	$\leq 0.1\%$
Bulk density	1.00–1.30 g/cm ³
pH, 10 g/L at 25°C	2.0–2.3
Particle size, 20–200 mesh	$\geq 90.0\%$

The supply specification applies to the stated commercial triple-salt grade. Bulk transport is Class 8; active oxygen and KHSO_5 content are reported on separate measurement bases.

Typical Properties

Property	Typical Value
Molecular formula	$2\text{KHSO}_5 \cdot \text{KHSO}_4 \cdot \text{K}_2\text{SO}_4$
Molecular weight	614.76 g/mol (triple salt)

Applications

Pool and spa formulations: Oxidizing component for formulated pool and spa treatment programmes. Evaluate dose, water chemistry, user instructions and the requirements for the finished treatment product.

Wastewater oxidation: Oxidant for selected industrial wastewater and odour-control trials. Determine oxidation demand and residual treatment requirements using the actual wastewater.

Industrial oxidation and bleaching: Oxidizing component for selected bleaching, surface-treatment and organic-synthesis processes. Check thermal response and compatibility with substrates, organics and reducing agents.

Packaging / Storage

Item	Information
Packing	25 kg bags
Storage	Keep tightly closed and dry in a cool, ventilated area. Separate from combustible materials, strong alkalis and other incompatible chemicals. Protect from heat and contamination.
Handling	Avoid dust inhalation and skin or eye contact. Use clean, compatible tools, local extraction, chemical-resistant gloves and eye/face protection. Prevent contamination with reducing agents or organic material.

Company Contact

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