



Technical Data Sheet

Product Name: Tris(trimethylsilyl)phosphate

CAS NO.: 10497-05-9

Product Features:

The product is used as an electrolyte additive for lithium-ion battery, forming a stable SEI film on the positive electrode, improving high-voltage and high-temperature cycling stability, as well as rate performance.

Technical Indicators:

Physical Properties	Standard
Appearance	Colorless transparent liquid
Density (25°C, g/cm ³)	0.953
Refractive Index (25°C)	1.4071
Boiling Point (°C)	228 - 229
Flash Point (°C)	110.8

Quality Properties	Standard
APHA (Pt-Co)	≤ 20
Purity (GC, %)	≥ 99.50
Moisture (ppm)	≤ 20
Cl ⁻ (ppm)	≤ 5
SO ₄ ²⁻ (ppm)	≤ 10
Al (ppm)	≤ 5
Ca (ppm)	≤ 5
Cr (ppm)	≤ 5
Cu (ppm)	≤ 5
Fe (ppm)	≤ 5
K (ppm)	≤ 5
Na (ppm)	≤ 5
Pb (ppm)	≤ 5
Zn (ppm)	≤ 5

Packing:

Samples are packed in fluoride bottle which is wrapped outside with aluminum foil pack.

The product is packed in stainless steel drum which equipped quick connector and filled with



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nitrogen gas inside (the filling pressure inside the drums should not exceed 0.08MPa) , net weight 150Kg per drum.

Storage and Usable Life:

The product is strictly forbidden to expose to the sun. When tightly storing the product in cool and dry place below 35°C ambient temperatures, it has a shelf life of six months from the date of manufacture.

Disposal Considerations:

Users are responsible for ensuring that the disposal of this product complies with relevant national, provincial, and local regulations. Empty packaging containers may contain hazardous residues and must be disposed of in a safe and compliant manner. Before processing, please read the SDS and container labels for information on safe use, physical and health hazards.

Caution:

Before using this product, please refer to the Chemical Safety Data Sheet (SDS) and container labels to obtain detailed data on product safety. Familiarize yourself with the safety information, operating instructions, environmental impact, storage methods, and preventive measurement of the product, and wear corresponding personal protective equipments as required.