

Triphenyl Phosphate (TPP)

Phosphate ester used as a plasticizer and flame-retardant additive in qualified polymer and resin formulations.

CAS 115-86-6	EC 204-112-2	Transport Class 9 · UN 3077 · PG III
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Product Information

Triphenyl phosphate is an aromatic phosphate ester, commonly abbreviated TPP. The supplied flake or powder grade specifies color, solidifying point, acid value and free phenol; no separate purity assay is provided. Evaluate compatibility, processing stability and additive migration with the intended polymer or resin. Fire performance depends on the complete material and required finished-product test. TPP also carries environmental hazards and regulatory obligations in some markets. The quotation should identify the intended industrial use and destination so the relevant safety and market requirements can be reviewed before shipment.

No assay/purity guarantee is given in the supplied sheet; the listed limits define this industrial grade. Finished-material fire performance and destination-market compliance require separate assessment.

TPP is listed on the EU REACH Candidate List as an SVHC for endocrine-disrupting properties affecting the environment. Applicable supply-chain communication and other destination requirements must be reviewed. Listing is not presented as a universal ban.

Specifications

Parameter	Specification
Appearance	White crystalline flakes or powder
Color, Pt-Co	≤50
Solidifying point	≥47.0 °C
Acid value	≤0.10 mg KOH/g
Free phenol	≤0.10 %

Typical Properties

Property	Typical Value
Molecular formula (component)	C ₁₈ H ₁₅ O ₄ P
Molecular weight (component)	326.28 g/mol

Applications

Polymer and resin additives: Evaluate TPP in compatible polymer and resin formulations where a phosphate plasticizer or flame-retardant additive is appropriate.

Coating formulations: Assess compatibility and storage stability in suitable industrial coating formulations.

Industrial material qualification: Use solidifying point, acid value, color and free-phenol limits to compare incoming grades.

Packaging / Storage

Item	Information
Packaging	20 kg net kraft paper bags.
Storage	Store tightly closed in a cool, dry, ventilated place, away from heat and strong oxidizers. Prevent release to drains and waterways.

Company Contact

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