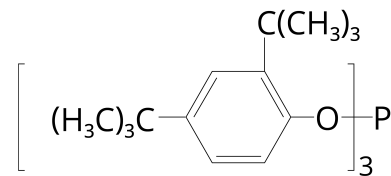




YFK-168

Chemical Structure

Chemical Name	Tris(2,4-Di-Tert-Butylphenoxy)phosphine
Chemical Formula	C ₄₂ H ₆₃ O ₃ P
Cas No.	31570-04-4
Molecular Weight	646



Specifications

Appearance	White crystalline powder or particle
Melting Range (°C)	183.0 ~ 187.0
Solubility	Clear
Transmittance %, 425nm	>= 98.0
Transmittance %, 500nm	>= 98.0
Volatile Loss %	<= 0.30
Acidity Value (mg KOH/g)	<= 0.30
Content %	>= 99.0
Content of 2,4-Di-Tert-Butylphenol %	<= 0.20

Usage Notes

Properties

It is readily soluble in organic solvents such as benzene, chloroform, and cyclohexane, and slightly soluble in esters, but insoluble in water and cold alcohols. It is low in toxicity, exhibits good thermal stability and water extraction resistance, and effectively decomposes hydrogen peroxide formed during the thermal processing of polymers.



YFK-168

Performance

It is an organic phosphite antioxidant featuring low volatility and excellent hydrolysis resistance. It effectively protects oxidation-prone polymers from molecular weight changes—such as chain scission or crosslinking—and yellowing during processing steps including compounding, pelletizing, molding, and recycling.

Applications

When blended with phenolic antioxidants and other compatible stabilizers, it can achieve specific stability requirements. It is also effective in synergy with other antioxidants and can be used in polyolefins and olefin copolymers, such as polyethylene (HDPE, LLDPE), polypropylene, polybutene, and ethylene-vinyl acetate copolymers. Additionally, it is suitable for polycarbonates, polyamides, polyesters, polystyrene-based homopolymers and copolymers, adhesives (both natural and synthetic resins), elastomers like BR, SEBS, SBS, and other organic materials.

Storage

This product is stable under normal conditions and does not have any special storage requirements. However, it should be protected from moisture and heat.

Recommended dosage

The typical dosage range is 0.05% to 0.30%.

Packaging

The product is packaged in PE bags. The net weight per bag is 20kg or 25kg. The pallet is wrapped, with a net weight of 500 kg or 625 kg.
