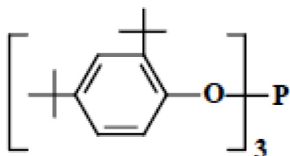


ELSAPHOS 168

(ANTIOXIDANT)

Chemical Name: Tris-(2,4-di-tert-butyl-phenyl)-phosphite

Structural Formula:



Molecular Formula: C₄₂H₆₃O₃P

Molecular Weight: 646.94

CAS No.: 31570-04-4

Properties: Soluble in benzene, chloroform, sparingly soluble in alcohol, acetone, insoluble in water.

Specification:

Item		Requirements
Appearance		White powder or grain
Melting point, °C		183.0~187.0
Volatilizing, %		Max. 0.30
Clarity of solution		Clear solution
Transmittance, %	425nm	Min. 98.0
	500nm	Min. 98.0
Acidity, mg KOH/g		Max. 0.30
Assay, %		Min. 99.0
Content of 2,4-di-tert-butyl-phenyl, %		Max. 0.20
Hydrolytic stability		Pass

Applications

The application range of ELSAPHOS 168 - synergistically combined with other anti-oxidants – ELSAPOX 1010, ELSAPOX 1076 comprises polyolefins and olefin-copolymers such as polyethylene (e.g. HDPE, LLDPE), polypropylene, polybutene and ethylene-vinyl acetate copolymers as well as polycarbonates and polyamides.

The blends can also be used in polyesters, styrene homo- and copolymers, adhesives and natural and synthetic tackifier resins, elastomers such as BR, SEBS, SBS, and other organic substrates.

Features/benefits

ELSAPHOS 168 is an organophosphite of low volatility and is particularly resistant to hydrolysis. It protects polymers which are prone to oxidation, during the processing steps (compounding/pelletizing, fabrication and recycling) from molecular weight change (e.g. chain scission/crosslinking) and prevents discoloration.

ELSAPHOS168 performs best when combined with other antioxidants.