SI Group
The Substance Inside

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LOWINOX™ TBM-6 stabilizer

Thiophenol Antioxidant

Description

LOWINOX™ TBM-6 stabilizer is a non-staining and non-discolouring hindered thiophenol antioxidant.

Chemical Name

4,4′-Thiobis(2-t-butyl-5-methylphenol)

Synonym

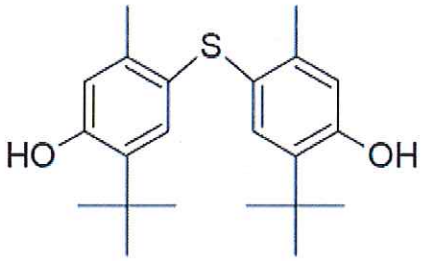
2,2′-Methylenebis(6-t-butyl-4-methylphenol) 2,2′-Methylenebis(6-t-butyl-4-methylphenol)

CAS-Number:

96-69-5

Formula

LOWINOX™ TBM-6 stabilizer



Typical physical properties of LOWINOX™ TBM-6 stabilizer

Appearance	White crystalline powder
Molecular weight [g/mol]	358
Particle size distribution d(50)	180-200 microns
Assay	Min. 98%
Melting range [°C]	160.0 - 164.0
Volatiles	0.1% Max
Ash Content	0.05 % Max
Iron Content	5 ppm
Color Apha	Guaranteed 50 Max

Solubility (g/100g solvent) @ 20°C

Water	0.08	Diethyl ether	0.5
Acetone	20	Methanol	79
Ethanol	47	Hexane	0.5-1.0

Thermogravimetric Analysis (10 mg @ 10°C/minutes under N_2)

Weight Loss [%]	5	10	50
Temperature [°C]	214	227	267

Applications

LOWINOX™ TBM-6 stabilizer is used as an antioxidant in HDPE and LDPE for tubes, water and gas pipes, connectors, high voltage cables and greenhouse films. **LOWINOX™ TBM-6 stabilizer** has high resistance to thermo-oxidative degradation and washout, excellent
compatibility with peroxides and great synergism with carbon black. **LOWINOX™ TBM-6 stabilizer** is also used as a polymerisation and processing stabiliser (PP, ABS, PVC, EPDM and polybutadienes), an anti-skinning agent for hot melt adhesives, an anti-scorching agent for polyurethanes during condensation of TDI on polyesters, and a heat stabilizer for lubricants.

Handling and Storage

The use of proper protective equipment is recommended. Excess exposure to the product should be avoided. Wash thoroughly after handling. Store the product in a cool, dry, well-ventilated area away from incompatible materials. Unless otherwise stated, the shelf life of the product is 5 years when it is properly stored.

For additional handling and toxicological information consult the SI Group Material Safety Data Sheet.