

# 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

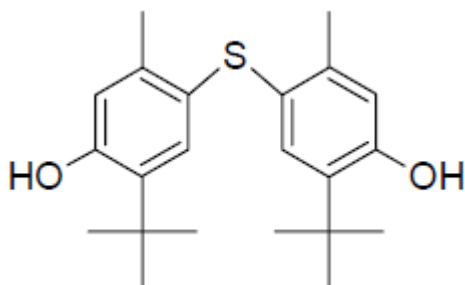
2,2'-Methylenebis(6-t-butyl-4-methylphenol) 2,2'-Methylenebis(6-t-butyl-4-methylphenol)

### 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<sub>2</sub>)

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.**