We create chemistry

Irganox® 1726

Chemical Nature

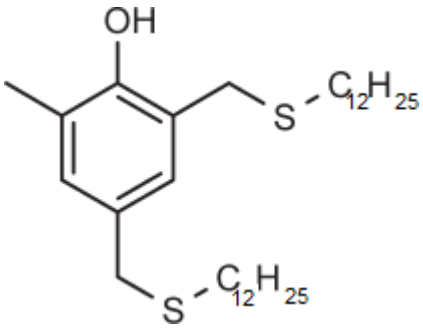
Irganox 1726 is a multifunctional phenolic antioxidant that protects organic substrates such as adhesives, elastomers and related products from thermo-oxidative degradation during processing.

Key Features & Benefits

- Non-staining, non-discoloring
- Low volatility
- Resistant to extraction
- Stable to light and heat

Chemical Composition

2,4-Bis(dodecylthiomethyl)-6-methylphenol



Properties

Typical Properties

Appearance		solid
CAS number		110675-26-8
Molecular weight	g/mol	536.96
Melting range	°C	~ 28
Flash point	°C	232
Vapor pressure at 25°C	Pa	1.8 E-19
Density at 40°C	g/ml	0.934

Solubility at 20°C (g/100g solution)

Acetone	> 50
Cyclohexane	> 50
Ethyl acetate	> 50
n-Hexane	> 50
Methanol	1
Toluene	> 50
Water	< 0.1

These typical values should not be interpreted as specifications.

Applications

Irganox 1726 is a multifunctional phenolic antioxidant suitable for stabilization of organic polymers particularly for adhesives, hot melt adhesives based on unsaturated polymers such as SBS or SIS, as well as solventborne adhesives (SBS) based on elastomers (natural rubber, chloroprene rubber, SBR, etc.) and waterborne adhesives. Irganox 1726 is also suitable for the stabilization of block co- polymers such as SBS and SIS and for polyurethane products such as PUR sealants. It effectively protects the substrate against thermo-oxidative degradation. It is non-staining, non-discoloring, low in volatility, resistant to extraction, and stable to light and heat.

Irganox 1726 is recommended for applications such as:

- Adhesive materials
- Elastomers
- PUR products

Irganox 1726 is an effective thermo-oxidative stabilizer for adhesive materials, especially hot melt adhesives, solvent- and water-based adhesives, block co-polymers such as SBS and SIS, as well as PUR products such as PUR sealants.

Processing

For easy dosing, Irganox 1726 can be liquefied by making use of a heat chamber (60°C).

Irganox 1726 can be used alone, at low levels and without co-stabilizers. Where necessary, it can be used with other additives such as primary and/or secondary antioxidants, acrylates and/or Vitamin E, light stabilizers other functional stabilizers and fillers. The effectiveness of these products in adhesives, block co-polymers and PUR products makes Irganox 1726 an excellent choice where consolidation of antioxidant systems is desirable.

Recommended Concentrations

The amount of Irganox 1726 required for optimum performance should be determined in laboratory trials covering a concentration range. Concentrations up to several percent may be used depending on the substrate, processing conditions, and requirements of the end application.

Normal usage levels typically range between 0.1 – 1.0%.

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measure described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Irganox 1726.

Storage

Please refer to the “Handling and Storage of Polymer Dispersions” brochure.

Important

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