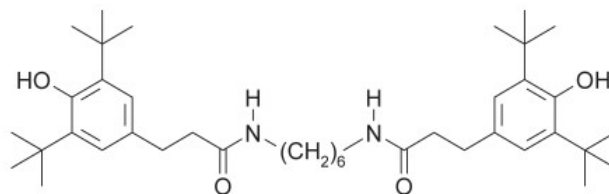


# PUREstab 1098

Phenolic Primary Antioxidant for Processing and Long-Term Thermal Stabilization

**Description:** PUREstab 1098, a sterically hindered phenolic antioxidant, is an efficient, non-discoloring stabilizer for organic substrates such as plastics, synthetic fibers, adhesives, and elastomers, and is particularly effective in polyamide polymers and fibers.

## Formula



**Chemical name:** N,N'-hexane-1,6-diylbis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionamide)

**CAS number:** 23128-74-7

**Molecular weight:** 637 g/mol

**Features & benefits:** PUREstab 1098 provides excellent processing and long-term thermal stability as well as excellent initial resin color. The product is superior to copper based systems used as stabilizers for polyamides with respect to color and resistance to extraction. It has excellent compatibility with polyamides and other substrates and low volatility.

**Application:** PUREstab 1098 is especially suited for the stabilization of polyamide molded parts, fibers, and films. Its use is also recommended in other polymers such as polyacetals, polyesters, polyurethanes, adhesives, elastomers as well as other organic substrates. PUREstab 1098 is recommended for use in polyamide molded articles, fibers, and films at concentrations of 0.05 % – 1.0 % depending on the polymer type, method of incorporation, application, and degree of stability required. It is easily dispersed into the polymer by conventional extrusion compounding techniques.

**Health & Safety:** PUREstab 1098 exhibits a very low order of oral toxicity and does not present any abnormal problems in its handling or general use.

## Physical Properties:

Melting range	156-161°C		
Flashpoint	282°C		
Vapor pressure (20°C)	1.3 E-12 Pa		
Density (20°C)	1.04 g/ml		
Solubility (20°C) g/100g solution	Solubility (20°C) g/100g solution		
- Acetone	2.0	- n-hexane	0.01
- Benzene	0.01	- Methanol	6.0
- 80% caprolactam / water	3.0	- Ethyl acetate	1.0
- Chloroform	6.0	- Water	0.01