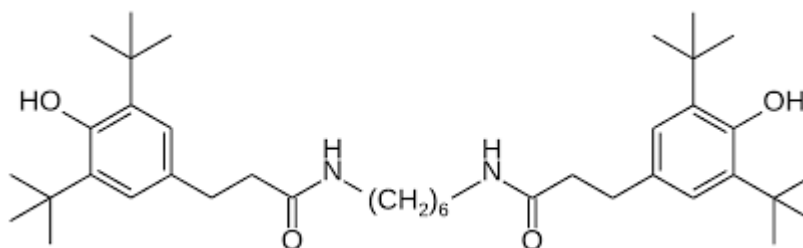


# PUREstab 1098

## Phenolic Antioxidant for Processing and Long-Term Thermal Stabilization

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

### Chemical Structure



**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 with excellent initial resin color. It 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. It is recommended for use in polyamide molded articles, fibers, and films at concentrations of 0.05% to 0.5% depending on the polymer type, method of incorporation, application, and degree of stability required.

**PUREstab 1098** can also be used during polyamide polymerization in concentration range from 0.05% to 0.2% to provide protection of polymer color properties in subsequent fabrication, spinning, or finishing operations. When **PUREstab 1098** is incorporated prior to or during the polyamide polymerization, reaction conditions and chain terminator concentration may require adjustment to compensate for the presence of the antioxidant.

It can be used in combination with other additives, such as costabilizers (e. g. phosphites, thioethers, hydroxylamines), light stabilizers (e. g. UV absorbers, hindered amines), and other functional stabilizers.

**Storage** This product may be stored up to two years in a sealed container. Containers should be kept tightly closed when not in use and stored in a cool, dry place.

# TECHNICAL DATA SHEET

Polygel Product Management

Email: [info@polygelbrunei.com](mailto:info@polygelbrunei.com)



## Physical Properties:

Product form	White to off-white powder
Melting range	156 – 161°C
Flashpoint	282°C
Density (20°C)	1.04 g/ml
Vapor pressure (20 °C)	1.3 E - 12 Pa
Solubility (20°C) g/100g solution	
- Acetone	2.0
- Chloroform	6.0
- n-Hexane	0.01
- Methanol	6.0
- Ethyl acetate	1.0
- Caprolactam + water (80% + 20%)	3.0
- Water	0.01

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November' 2019