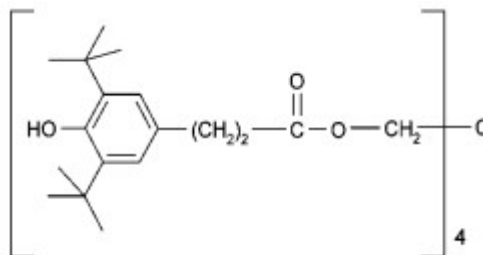


# PUREstab 1010

Phenolic Primary Antioxidant for Processing and Long-Term Thermal Stabilization

**Description:** PUREstab 1010 is a high molecular weight hindered phenolic primary antioxidant. It is a highly effective, non-discolouring stabilizer for organic substrate such as plastics, elastomers, synthetics fibres, adhesive and sealant, wax, oil and fats. It protects these substrates against thermo-oxidative degradation.

**Formula**



**Chemical name:** Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)

**CAS number:** 6683-19-8

**Molecular weight:**

1177.6 g/mol

**Features & benefits:** PUREstab 1010 has good compatibility, high resistance to extraction and low volatility. It is odourless and tasteless. It can be used in combination with other additives such as co-stabilizers, e.g. thioethers (LTHS), secondary antioxidant, light stabilizers and other functional stabilizers, e.g. PUREstab 1010 with PUREfos 168

**Application:** At concentrations of 0.05% - 0.1%, PUREstab 1010 is providing long-term thermal stability to the polymer. In polyolefins the recommended concentration levels range between 0.05% and 0.4% depending on the matrix, processing conditions and long-term thermal stability requirements. In hot melt adhesives, it is ranging from 0.2% to 1.0%, in synthetic tackifier resins, from 0.1% and 0.5%.

**Health & Safety:** PUREstab 1010 is approved in many countries for use in food contact applications. For detailed information please contact our local sales offices.

**Physical Properties:**

Melting range	110-125°C		
Flashpoint	297°C		
Vapor pressure	7 E-10 Pa		
Density (20°C)	1.15 g/ml		
Bulk density	Powder 530 - 630 g/l		
Solubility (20°C) g/100g solution	Solubility (20°C) g/100g solution		
- Acetone	47.0	- Ethanol	1.5
- Chloroform	71.0	- N-hexane	0.3
- Ethyl-acetate	47.0	- Methylene chloride	63.0
- Methanol	0.9		