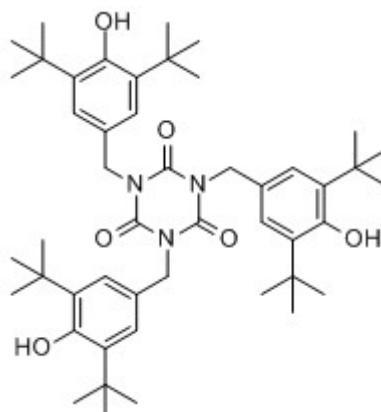


PUREstab 3114

Phenolic Primary Antioxidant for Processing and Long-Term Thermal Stabilization

Description: PUREstab 3114 is a highly effective sterically hindered phenolic antioxidant. It acts as a non discoloring stabilizer for organic substrates such as polymers, synthetic fibers, elastomers, adhesives, waxes, oils and fats and protects these substrates against thermo-oxidative degradation (and to some extent contributes to their light stability).

Formula



Chemical name: 1,3,5-Tris(3,5-di-tert.-butyl-4-hydroxybenzyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione

CAS number: 27676-62-6 **Molecular weight:** 784 g/mol

Features & benefits: PUREstab 3114 can be applied in polyolefins, homo- and copolymers. It may also be used in linear polyesters, PVC, polyamides and polyurethanes, elastomers such as SBS, EPR, EPDM and other synthetic rubbers, adhesives, tackifier resins and other organic substrates. Irganox 3114 has good compatibility with most substrates, high resistance to extraction, and low volatility. It is odorless and stable to light.

Application: In polyolefins, the concentration levels for PUREstab 3114 range typically between 0.05% and 0.3% depending on substrate, processing conditions and longterm thermal stability requirements. The optimum level is application specific.

Health & Safety: PUREstab 3114 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	218-223°C		
Flashpoint	289°C		
Density (20°C)	1.03 g/ml		
Bulk density	Powder 530 - 630 g/l		
Solubility (20°C) g/100g solution	Solubility (20°C) g/100g solution		
- Acetone	29.0	- Ethanol	1.5
- Chloroform	21.0	- n-hexane	0.6
- Methanol	0.5	- Water	0.01