

# FuncChem (Shanghai) Inc.

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## Antioxidant 1790

**Chemical Name:**

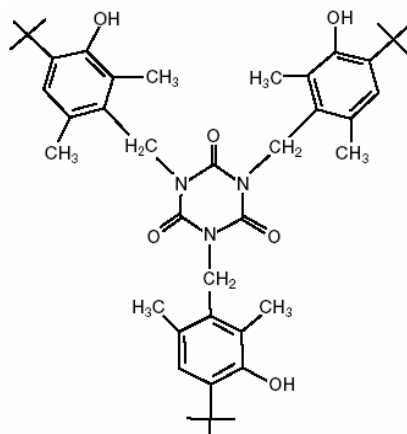
1,3,5-TRIS(4-tert-butyl-3-hydroxy-2,6-dimethylbenzyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione

**Molecular Formula:**  $C_{39}H_{57}O_6N_3$

**Molecular Weight:** 663.9

**CAS Number:** 40601-76-1

**Chemical Structure:**



**Appearance:** Grayish white powder

**Characterization:** Antioxidant-1790 is a high performance phenolic antioxidant, sterically hindered phenolic antioxidant of the trisphenol class with a cyanuric acid central moiety.

**Applications:** Antioxidant-1790 is especially suited for polyurethane, polypropylene polyester and polyamide fibers where it provides unusually low load levels and excellent gas fading resistance. In addition the molecular structure and the relatively high molecular weight results in a high migration resistance in highly demanding application like hot water conducting polypropylene pipes.

**Features / Benefits:**

- Minimal color contribution
- Low volatility
- Good solubility/migration balance

## FuncChem (Shanghai) Inc.

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- Excellent compatibility with polymeric HALS and UVAs
  - Superior polymer stabilization

### Physical and Chemical Properties

Item	Specification
Physical state	Powder
Relative density	1.32
Melting range	145- 155?
Volatile	0.5% max
Solubility@20? (g/100g solvent)	
Water	0.0
Methanol	1.1
Toluene	>10.0
Dimethylacetamide	>100