

## Technical Information

**Tinogard® TT**

PRD 30483790

Valid since	27.03.2019
Revision	2.0
WF-No.	19012
Page	1 of 4

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**Care Chemicals****Antioxydant****INCI name(s)**

Pentaerythrityl Tetra-di-t-butyl Hydroxyhydrocinnamate

**Chemical description**

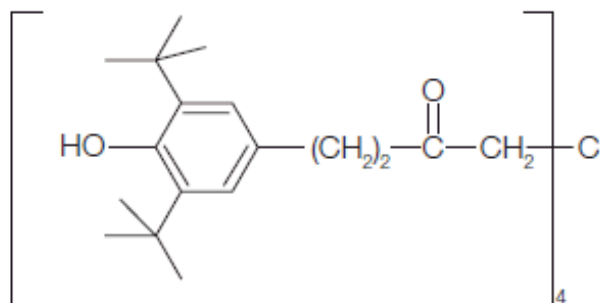
Pentaerythritol Tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)

**Physical form:**

White powder

**Molecular weight**

1178 g/mol

**Structural Formula****CASR-No.**

6683-19-8

**Ingredient**

Pentaerythritol Tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)

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**Care Chemicals****Characteristic values**

The specifications stated in the paragraphs 'Quality control data' and 'Additional product descriptive data' finally and conclusively describe the properties of the product.

**Quality control data**

(Data which is used for quality release and is certified for each batch.)

Test property	Specification
Appearance	Fine powder
Odor	Trace characteristic odor
Product color	White
Solubility at 25 °C, charac (5 g/45 ml Toluene 25 °C)	Clear
Transmission at 425 nm, 10 mm (5 g/45 ml Toluene 25 °C)	min. 95.0
Transmission at 500 nm (5 g/45 ml Toluene 25 °C)	min. 97.0
Content	min. 98.0 %
Volatile matter (3 g, 105 °C, 2 hours)	max. 0.5 %

Specific methods used for batch release see Certificate of Analysis.

**Typical values**

(For information purposes only, not part of the guaranteed specifications.)

Property	Value
Melting Range	110 - 125 °C
Flashpoint	297 °C
Specific Gravity (20 °C)	1.15 g/cm <sup>3</sup>



We create chemistry

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**Care Chemicals**

## Storage information

### Shelf life

60 months

### Storage temperature

Room temperature

### Storage conditions

In original sealed containers and protected from moisture

## Stabilising additives / Auxiliaries

### Preservatives

not present

### Antioxidants

not present

### Solvents

not present

### Others

not present

## General information

### Raw material basis

Synthetic: (mineral oil / natural gas)

## Composition hints for finished product label

### INCI Components

#### INCI Name (US/EU/CN)

Pentaerythrityl Tetra-di-t-butyl Hydroxyhydrocinnamate

#### Content

Complete \*

\* Complete means conclusively describes the substance



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Care Chemicals

## Product properties

### Solubility

Solubility of active (20 °C)	g/100 g solution
Ethyl Acetate	47.0
Caprylic/Capric Triglyceride	8.0
PEG-7 Glyceryl Cocoate	3.5
Isopropylmyristate	3.0
Castor Oil	1.5
Ethanol	1.2
2-Propanol	2.5
Water insoluble	

## Miscellaneous information

### Example of use

Tinogard® TT is a phenolic antioxidant for stabilization of oxidation sensitive cosmetic formulations and ingredients. It protects fragrances, oils, fats, and other oxygen sensitive ingredients from degradation during processing, handling and storage, thus maintaining the product's performance and providing long-lasting shelf life.

**Intended for use as cosmetic ingredient**

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Care  
Creations™