

Technical Information

Tinogard® TT

PRD 30483790

Valid since 16.01.2019
Revision 1.1

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

Pentaerythrityl Tetra-di-t-butyl Hydroxyhydrocinnamate

Chemical description

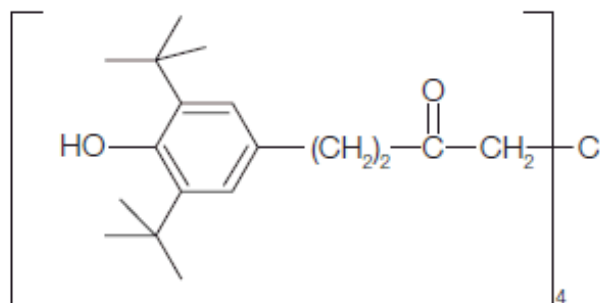
Pentaerythritol Tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)

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.

Additional product descriptive data

(Data which is proven statistically but not determined regularly.)

Test property	Specification
Total viable count	≤ 100 CFU/g
Gram negative bacilli	≤ 0 Neg/0.1 g

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 ³



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)	Content
Pentaerythrityl Tetra-di-t-butyl Hydroxyhydrocinnamate	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**Disclaimer**

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