

Technical Information

Tinogard® TS

PRD 30484864

Valid since 16.01.2019
Revision 1.1

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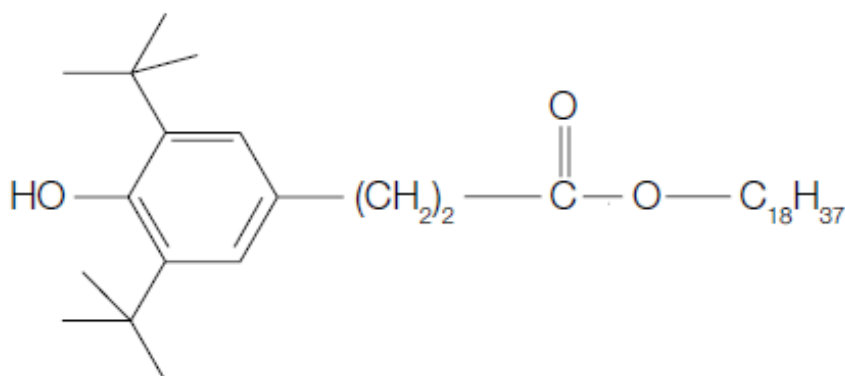
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Care Chemicals**Antioxidant****INCI name(s)**Octadecyl Di-*t*-butyl-4-hydroxyhydrocinnamate**Chemical description**Octadecyl 3-(3,5-di-*t*-butyl-4-hydroxyphenyl)propionate**Physical form:**

White to off-white powder/ fine granules

Molecular weight

531 g/mol

Structural Formula**CASR-No.**
2082-79-3**Ingredient**
Octadecyl 3-(3,5-di-*t*-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 granules
Product color	Light beige to white
Solubility at 25 °C, charac (5 g/ 45 ml toluene 25 °C)	Clear
Solubility at 25 °C parts (5 g/ 45 ml toluene 25 °C)	No parts
Transmission at 425 nm, 10 mm (5 g/ 45 ml toluene 25 °C)	min. 97.0
Transmission at 500 nm (5 g/ 45 ml toluene 25 °C)	min. 98.0
Content	min. 99.0 %
Volatile matter (3 g, 105 °C, 2 hours)	max. 0.2 %

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	50 - 55 °C

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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

Additional information

Store in a cool, dry area with adequate ventilation.

Protect from temperatures above + 40 °C.

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)

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Care Chemicals**Composition hints for finished product label****INCI Components**

INCI Name (US/EU/CN)	Content
Octadecyl Di-t-butyl-4-hydroxyhydrocinnamate	Complete *

* Complete means conclusively describes the substance

Product properties**Solubility**

Solubility (20 °C)	g/100 g solution
Crodamol GTCC	35
Isopropylmyristate	39.7
Paraffin oil	9.2
PEG-7 Glyceryl Cocoate	3.9
Castor Oil	5.5
Ethanol	3.7
2-Propanol	0.4
Propylene glycol	< 0.01
Water	insoluble

Miscellaneous information**Performance**

Tinogard® TS is an oil soluble phenolic antioxidant. It can be added to the oil, perfume or organic phase of personal care formulations. It is recommended to predissolve the antioxidant in the most oxidation sensitive phase of the formulation (e.g. fragrance or oil/fat). Because of its insolubility in water a sufficient amount of solubilizing compounds is needed in aqueous formulations to avoid precipitation.

Tinogard® TS is non-discoloring, odorless, and of low volatility.

The product can be used in combination with other phenolic or non-phenolic antioxidants (e.g. Tinogard® LO1 or Tinogard® MD1) or in combination with light stabilizers.

Concentrations of 0.01 to 0.10% are usually sufficient to stabilize formulations against oxidative degradation. Optimal incorporation levels depend on the individual formulation, the packaging and long-term stability requirements.



We create chemistry

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Care Chemicals

Example of use

Tinogard® TS 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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