

Valid since 16.01.2019 Tinogard® TL

Revision 1.1

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# **UV Light Stabilizer**

### INCI name(s)

Benzotriazolyl Dodecyl p-Cresol

### **Chemical description**

2-(2H-benzotriazol-2-yl)-6-dodecyl-4methyl-phenol

### Physical form:

Yellowish liquid

# Molecular weight

394 g/mol

### **Structural Formula**

### CASR-No.

### Ingredient

125304-04-3

2-(2H-benzotriazol-2-yl)-6-dodecyl-4methyl-

phenol





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# 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.)

**Specification Test property** Appearance Viscous liquid Aspect Viscous liquid

Characteristic Clear Product color Yellow Solubility at 25 °C, charac. (5 % in Clear

ethylacetate, 10 mm)

Transmission at 440 nm (5 % in

min. 90.0

ethylacetate, 10 mm)

Content (10 mg/l ethylalc., 340 nm, min. 93.0 %

10 mm)

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 Point -56 °C





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# 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

Benzotriazolyl Dodecyl p-Cresol

Complete \*



<sup>\*</sup> Complete means conclusively describes the substance



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# **Product properties**

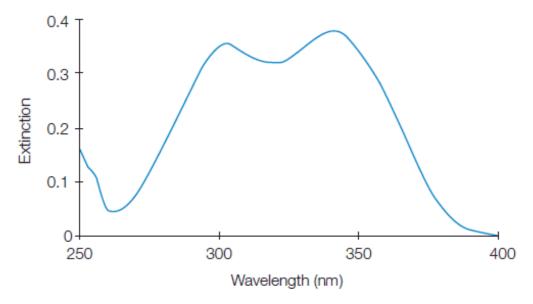
**Solubility**Solubility of active (20 °C) g/100 g solution

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Ethyl Acetate > 50
Acetone > 50
PEG-7 Glyceryl Cocoate 12
Ethanol 12
2-Propanol 11
Isopropyl Myristate 10

# Specific technical data

Spectrum



Tinogard® TL (10 mg/L in iso-propanol)



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# Miscellaneous information

#### **Performance**

Tinogard® TL is an oil and alcohol soluble UV absorber. At room temperature its physical form is liquid, making it easy to handle and formulate. It is suitable for alcoholic and hydro-alcoholic formulations, oils, waxes, emulsions and fragrance oils. It can also be incorporated into aqueous formulations via the oil or fragrance phase, or via solubilizers. Concentrations of 0.01 to 0.10 % are usually sufficient to stabilize formulations against photolytic degradation. Optimal incorporation levels depend on the individual formulation, the packaging and long-term stability requirements. Very strong and effective stabilizer systems can be created by combining Tinogard® TL with the excited state quencher Tinogard® Q.

### **Example of use**

Tinogard® TL is a broadband UV absorber for stabilization of transparent packaged products. It is specifically tailored to the needs of the Personal Care industry. It protects colors, frangrances, natural compounds and other sensitive ingredients from photolytic and/or photooxidative degradation, thus providing long-lasting shelf life even wiht light sensitive formulations.

### Intended for use as cosmetic ingredient

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