

## PRODUCT AND COMPANY IDENTIFICATION

**GHS Product Name:** DOTA-tris(tert-butyl ester)

**Product code:** r-203

**Company:** PharmSintez.Lab

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### 1.1 Product identifiers

Product name:	DOTA-tris(tert-butyl ester)
Product Catalogue Number:	r-203
Band:	PharmSintez.Lab
CAS-No:	137076-54-1

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses:	Peptide synthesis
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## 1. Hazards identification

This substance is not classified as dangerous according to European Union legislation.

## 2. Composition/information on ingredients

Formula	$C_{28}H_{52}N_4O_8$
CAS-No.	137076-54-1
Molar mass	572,74 g/mol

## 3. First aid measures

After inhalation: fresh air. Consult doctor if feeling unwell.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.

After swallowing: immediately make victim drink water (two glasses at the most). Consult a physician.

## 4. Fire-fighting measures

*Suitable extinguishing media*

Water, Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder

*Specific hazards during fire fighting*

Combustible material
Development of hazardous combustion gases or vapours possible in the event of fire.
Fire may cause evolution of:
nitrogen oxides

*Special protective equipment for fire-fighters*

Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

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*Further information*

Prevent fire extinguishing water from contaminating surface water or the ground water system.  
Suppress (knock down) gases/vapours/mists with a water spray jet.

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## 5. Accidental release measures

*Personal precautions*

Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation.

*Environmental precautions*

Do not let product enter drains.

*Methods for cleaning up*

Take up dry. Forward for disposal. Clean up affected area. Avoid generation of dusts.

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## 6. Handling and storage

### Handling

*Advice on safe handling*

Observe label precautions.

### Storage

*Further information on storage conditions*

Tightly closed. Dry.

Store at +2°C to +8°C.

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## 7. Exposure controls/personal protection

Contains no substances with occupational exposure limit values.

### Personal protective equipment

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

*Respiratory protection*

required when dusts are generated.

Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances

*Eye protection*

Safety glasses

*Protective measures*

Protective suit

*Hygiene measures*

Change contaminated clothing. Application of skin- protective barrier cream recommended.

Wash hands after working with substance.

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## 8. Physical and chemical properties

Form	powder
Colour	white
pH	no data available

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Viscosity, dynamic	no data available
Boiling point	no data available
Ignition temperature	no data available
Flash point	no data available
Oxidizing properties	no data available
Flammability	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Relative vapour density	no data available
Density	no data available
Solubility/qualitative	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Evaporation rate	no data available

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## 9. Stability and reactivity

*Conditions to avoid*  
no information available

*Materials to avoid*  
Violent reactions possible with:

Strong oxidizing agents

*Hazardous decomposition products*  
in the event of fire: See chapter 5.

*Further information*  
The following applies in general to flammable organic substances and preparations: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

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## 10. Toxicological information

*Further information*  
Quantitative data on the toxicity of this product are not available.

Further toxicological data:

Hazardous properties cannot be excluded.

Further data:

Handle in accordance with good industrial hygiene and safety practice.

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## 11. Ecological information

*Additional ecological information*  
We have no quantitative data concerning the ecological effects of this product.

Further information on ecology

Do not allow to enter waters, waste water, or soil!

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## 12. Disposal considerations

### *Product*

Chemicals must be disposed of in compliance with the respective national regulations. Under [www.retrologistik.de](http://www.retrologistik.de) you will find country- and substance-specific information as well as contact partners.

### *Packaging*

Merck product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. Under [www.retrologistik.de](http://www.retrologistik.de) you will find special information on the respective national conditions as well as contact partners.

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## 13. Transport information

Not classified as dangerous in the meaning of transport regulations.

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## 14. Regulatory information

CAS-No. 137076-54-1

### **Labelling according to EC Directives**

Further information

Caution - substance not yet fully tested.

### **National legislation**

Storage class VCI: 10 - 13 Other liquids and solids

Major Accident Hazard Legislation: 96/82/EC Update: 2003  
Directive 96/82/EC does not apply

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### *Further information*

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### **Preparation Information**

PharmSintez.Lab

Product Safety – multiple Region Tel: +7 (495) 796-94-33

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