

## Safety Data Sheet

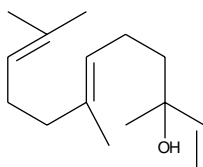
## Nerolidol

## 1. Product and Company Identification

Product name	Nerolidol	
Product code	04 1089 6	
Company information	Manufacturer: DSM Nutritional Products AG Wurmisweg 576 CH-4303 Kaiseraugst Switzerland	Local representation:
	Phone +41-62 866 23 14	
	Fax +41-62 866 25 10	

## 2. Composition/Information on ingredients

Characterization	mixture of isomers; fragrance and chemical raw material
Chemical name	- 3,7,11-Trimethyl-1,6,10-dodecatrien-3-ol
Synonyms	- 3-Hydroxy-3,7,11-trimethyl-1,6,10-dodecanatrien - Nerolidol techn. (Product code 0410896) - Nerolidol (Product code 5000394)
CAS number	7212-44-4
EINECS number	230 597 5
Ro number	Ro 02-8731/000
Empirical formula	C <sub>15</sub> H <sub>26</sub> O
Molecular mass	222.37 g/mol



## 3. Hazards identification

Most important hazards	- No particular hazards known.
------------------------	--------------------------------

## 4. First-aid measures

Eye contact	- rinse immediately with tap water for 10 minutes - open eyelids forcibly
Skin contact	- remove immediately contaminated clothes, wash affected skin with water and soap - do not use any solvents
Inhalation	- remove the casualty to fresh air and keep him/her calm - in the event of symptoms get medical treatment
Note to physician	- treat symptomatically

## 5. Fire-fighting measures

Suitable extinguishing media	- foam, powder, carbon dioxide, adapt extinguishing media to surrounding fire conditions
Unsuitable extinguishing media	- use water spray for cooling purposes only (fat explosion hazard)
Specific hazards	- Material is combustible

## 6. Accidental release measures

Personal precautions	- ensure adequate ventilation
Methods for cleaning up	- collect spills with inert adsorbent and hand over to waste removal

## 7. Handling and storage

### Handling

Technical measures	- processing in closed systems, superposed by inert gas (e.g. nitrogen) - take precautionary measures against electrostatic charging - provide exhaust ventilation
Suitable materials	- glass, enamel, stainless steel, tin, zinc
Unsuitable materials	- aluminium

### Storage

Storage conditions	- store under inert gas - protected from light - protected from humidity
Packaging materials	- tightly closing; material: coated steel (protective lacquer)

## 8. Exposure controls/Personal protection

**Engineering Measures** - see 7.

### Personal protective equipment

Respiratory protection - in case of olfactory nuisance: respirator with independent air supply or mask with activated charcoal filter

Hand protection - protective gloves (eg made of NBR Acrylnitril-Butadien-Rubber)

Eye protection - safety glasses

## 9. Physical and chemical properties

Colour colourless to yellowish

Form liquid

Odour similar to citrus

Density 0.88 g/cm<sup>3</sup> (20 °C)

Viscosity 0.01112 kg/m\*s (20 °C)  
0.000009 kg/m\*s (267.9 °C)

Refraction index  $n_D^{20}$  1.480

Solubility insoluble, water  
soluble, organic solvents  
soluble, ethanol

Partition coefficient log P<sub>ow</sub> 4.7 (octanol/water°C)

Melting temperature -75 °C

Boiling temperature 122 °C (4 mbar)  
145 °C (16 mbar)  
276 °C (1000 mbar)

Flash point (liquid) 96 °C

Ignition point (liquid) 240 °C

## 10. Stability and reactivity

Stability - stable under the conditions mentioned in chapter 7

Conditions to avoid - light  
- air

Materials to avoid - acids, oxidizing agents

# Nerolidol

## 11. Toxicological information

Acute toxicity	- LD <sub>50</sub>	> 8'000	mg/kg	(oral, mouse)
	- LD <sub>50</sub>	> 5'000	mg/kg	(dermal, rabbit)
	- LD <sub>50</sub>	> 5'000	mg/kg	(oral, rat)
Local effects	- skin:	non-irritant	(rabbit)	
Sensitization	- non-sensitizing	(guinea pig)		
Note	- food additive			
	- dosage:	≤ 6 ppm		

## 12. Ecological information

Ready biodegradability	- readily biodegradable	87 %, 28 days	(MITI Test I, OECD No. 301 C)
Air pollution	- observe local/national regulations		

## 13. Disposal considerations

Waste from residues	- observe local/national regulations regarding waste disposal
	- incinerate in qualified installation with flue gas scrubbing

## 14. Transport information

Note	- not classified by transport regulations
------	---

## 15. Regulatory information

Note	- no classification and labelling according to EU directives
Water hazard class (Germany)	2: hazardous for water (approved classification according to directive VwVwS of 17.05.1999)

## 16. Other information

Use	<ul style="list-style-type: none"><li>- additive for use in food and pharmaceuticals</li><li>- fragrance</li><li>- chemical raw material</li></ul>
Safety-lab number	<ul style="list-style-type: none"><li>- BS-5298</li><li>- BS-5740</li></ul>
Edition documentation	<ul style="list-style-type: none"><li>- changes from previous version in sections 2, 4, 8, 11, 15</li></ul>

### Important Notice

DSM N.V., headquartered in Heerlen, The Netherlands, has acquired the vitamins, carotenoids, enzymes, food and feed ingredients, cosmetics ingredients and fine chemicals business (VFC Business) of the Roche group of companies, headquartered in Basel, Switzerland. Within the United States, DSM Nutritional Products, Inc. has purchased certain assets and assumed certain liabilities of the VFC Business formally conducted by Roche Vitamins Inc. Please note that corporate names, trade names, trade and service marks and domain names containing the word "Roche" and the "Roche" logo will continue to appear on our business documentation during our transition. We appreciate your understanding and cooperation as we complete our rebranding program. Should you have any questions, or if DSM can be of further assistance to you, please do not hesitate to contact your Account Manager or our Account Management Center at: +41-62 866 23 14.