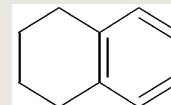


**1,2,3,4-TETRAHYDRONAPHTHALENE****GENERAL DESCRIPTION**

VESTASOL<sup>®</sup> THN is an aromatic-cycloaliphatic hydrocarbon. The naphthalene-like smelling, colorless liquid is insoluble in water and miscible with all common solvents.

**SPECIFICATION**

Property	Value	Unit	Test method
Appearance	clear		visual
Color (Hazen)	≤ 20	mg Pt/l	DIN ISO 6271/ ASTM D 1209
Purity	≥ 98,0	% by weight	Gas chromatography
Decahydronaphthalene content	≤ 1,5	% by weight	Gas chromatography
Naphthalene content	≤ 0,7	% by weight	Gas chromatography

## TYPICAL DATA

Property	Value	Unit	Test method
Molecular weight (C <sub>10</sub> H <sub>18</sub> )	132.21	g/mol	
Solidification	approx. – 31	°C	DIN ISO 3016
Viscosity at 20°C	approx. 2.2	mPa s	DIN 53 015
Solubility parameter at 25°C	19.5	(J/cm <sup>3</sup> ) <sup>1/2</sup>	-
Heat of evaporation at b.p.	42.3	kJ/mol	-
Vapor pressure at 20°C	0.24	hPa	-
Evaporation number (diethyl ether = 1)	approx. 200		DIN 53 170
Flash point	approx. 71-77	°C	DIN EN ISO 2719
Refractive index at 25°C	approx. 1.539		DIN 51 423
Density at 20°C	approx. 0.965-0.971	g/ml	DIN 51 757 / ASTM D 2111
Boiling range at 1013 hPa	200-209 (min. 95 % by vol. distil within 9°C)	°C	DIN 53 171

## PROPERTIES AND APPLICATION

VESTASOL® THN dissolves fats, oils, linoxyn, rubber, waxes, asphalt, bitumen, pitch, phenol, naphthalene, iodine and sulphur among other things. It is used on a large scale in coatings and for the production of 1-naphthole. It dissolves colophony, congo copals, oil glyptals, coumarone resins and modified formaldehyde resins and is therefore widely used in the production of high-grade lacquers, as it imparts a good flow to the lacquers and gives high gloss, smooth film surfaces.

VESTASOL® THN is auto-oxidative and thus acts in drying oils as an oxygen donor.

The very high dissolving power for organic substances of all types promotes the adhesion of the individual paint layers to one another.

VESTASOL® THN is used as a solvent for herbicides.

## TRANSPORT AND PACKAGING

VESTASOL® THN is supplied in 200 kg non-returnable steel drums, as well as in road tankers.

For NAFTA: VESTASOL® THN is supplied in 441 pound non-returnable steel drums, as well as in iso containers.

## STORAGE

Tetrahydronaphthalene can be stored in steel containers. Storage times up to 1 year in closed original containers are possible without influence to the product.  
Storage temperature should not exceed 30 °C.

## SAFETY AND HANDLING

Please refer to our Material Safety Data Sheet.

Marl, June 10, 2018; This data sheet replaces all former issues.

VESTASOL<sup>®</sup> is a registered trademark of Evonik Industrie AG or one of its subsidiaries.

### Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

### EVONIK OPERATIONS GMBH

Business Line Crosslinkers  
Paul-Baumann-Str. 1  
45764 Marl  
Germany

[www.evonik.com/crosslinkers](http://www.evonik.com/crosslinkers)

For contact in your country, please visit: [www.evonik.com/crosslinkers-contact](http://www.evonik.com/crosslinkers-contact)

### EVONIK CORPORATION

Business Line Crosslinkers  
299 Jefferson Road,  
Parsippany, NJ 07054-0677  
USA

### EVONIK SPECIALTY CHEMICALS (SHANGHAI) CO., LTD.

Business Line Crosslinkers  
55, Chundong Road  
Xinzhuang Industry Park  
Shanghai, 201108  
China

