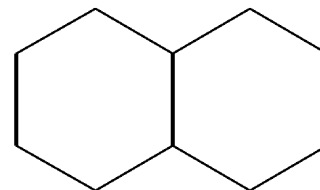


## VESTASOL<sup>®</sup> DHN



43.13.313ew / 07.04

### General description

VESTASOL<sup>®</sup> DHN is a cyclo-aliphatic hydrocarbon with a characteristic odor. It is insoluble in water but miscible with organic solvents. The mixture of isomers contain approx. 60 % trans-Decahydronaphthalene.

### Specification

Property	Value	Unit	Test method
Appearance	clear		visual
Color (Hazen)	≤ 10	mg Pt/l	DIN ISO 6271/ ASTM D 1209
Purity (mixture of isomeres)	≥ 98.0	% by weight	Gas chromatography
Water content	≤ 0.1	% by weight	DIN 51 777 / ISO 760
Acid content (calc. as acetic acid)	≤ 0.01	% by weight	ASTM D 1613

### Typical Data

Molecular weight (C <sub>10</sub> H <sub>18</sub> )	138.25	g/mol	-
Refractive index at 25°C	approx. 1.472		DIN 51 423
Density at 20°C	approx. 0.870-0.895	g/ml	DIN 51 757/ ASTM D 2111
Boiling range at 1013 hPa	185-195 (95 Vol.-% distil within 10°C)	°C	DIN 53 171
	cis-Isomer	trans-Isomer	
Solidification point	approx. - 43	approx. -30.4	°C DIN ISO 3016
Viscosity at 20°C	approx. 3.4	approx. 2.1	mPa s DIN 53 015
Solubility parameter at 25°C	17.6	17.0	(J/cm <sup>3</sup> ) <sup>1/2</sup> -
Heat of evaporation at b.p.	39.8	38.6	kJ/mol -
Vapor pressure at 50°C	1	4	hPa -
Evaporation number (diethyl ether = 1)	approx. 100	approx. 100	DIN 53 170
Flash point	approx. 61	approx. 54	°C DIN EN ISO 2719

## Application

VESTASOL<sup>®</sup> DHN is used as a solvent for fats, resins, waxes and lacquers.

High gloss and good flow is obtained when it is used in lacquers. It is well proved as a cleaning agent for print sheets and as a solvent for textile dyes.

It is used as a solvent in the production of amorphous polyolefins which are again used in the manufacture of compact disks, laser disks and digital video disks.

## Transport and Packaging

Decahydronaphthalene is supplied in 180 kg non-returnable steel drums, as well as in road tankers.

For NAFTA: Decahydronaphthalene is supplied in 397 pound non-returnable steel drums, as well as in iso containers.

## Storage

VESTASOL<sup>®</sup> DHN 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 Safety Data Sheet.

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