

Diphyl[®] THT

Properties

Diphyl[®] THT is a high-performance heat resistant synthetic heat transfer fluid for use in the liquid phase in closed heat transfer systems. It has an extremely high thermal stability with a long operating life.

Specification

PARAMETER	UNIT	SPECIFICATION	METHOD
Appearance		Colorless pale yellow liquid	
Assay terphenyls, partially hydrogenated	weight-%	min. 99.0	GC
Water content	mg/kg	max. 150	Karl Fischer

Specification values are subject to constant monitoring.

Physical / Chemical Data

PARAMETER	UNIT	VALUE	METHOD
Range of application	°C	0 to 345	
Kinematic viscosity (20°C)	mm ² /s	102	
Density (20°C)	kg/m ³	1004	DIN 51562-1
Pour point	°C	-33	DIN ISO 3016
Neutralisation number	mg KOH/g	0.01	DIN 51558 part 1
Maximum film temperature	°C	370	DIN ISO 3016
Initial boiling point (at 1.013 bar)	°C	352	DIN 51558 part 1
Flash point	°C	190	ISO 2719
Autoignition temperature	°C	380	DIN 51794
Solubility in water (at 20°C)	mg/l	0.0001	Quentin method
Surface tension (at 20°C)	mN/m	37.9	OECD ring method
Thermal conductivity	W/m·K	0.109	
Mean specific heat (20°C)	kJ/kg·K	1.54	
Coefficient of thermal expansion	1/K	8.4·10 ⁻⁴	

Characteristic data provide further information about the product and are not subject to constant monitoring. They are therefore not binding.

Storage / Handling / Labeling

Please refer to our Safety Data Sheet.

Shelf Life

Tank container: 2 years if stored properly

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200 kg drum: 2 years if stored properly and kept in the original sealed packaging.

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Packaging

Tank container
200 kg Drum

Additional Information

CAS No.:	61788-32-7
EINECS:	262-967-7
REACH:	05-2114710765-48-0000

Application

The product is used e.g. for:

- chemical processing plants
- petrochemical processing plants
- waste heat recovery
- PET/PA fiber spinning

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