

Diphyl[®] DT

Properties

Diphyl[®] DT is a high-boiling, organic heat transfer fluid with a low viscosity and excellent thermal stability for cooling and heating in liquid applications (under N₂ pressure)

Specification

PARAMETER	UNIT	SPECIFICATION	METHOD
Appearance		Clear, pale yellow liquid	
Assay sum ditolyether	%	min. 97.5	GC
Water content	mg/kg	max. 200	Karl Fischer

Specification values are subject to constant monitoring.

Physical / Chemical Data

PARAMETER	UNIT	VALUE	METHOD
Range of application	°C	-30 to 330	
Kinematic viscosity (20°C)	mm ² /s	6.3	DIN 51562-1
Density (20°C)	kg/m ³	1035	DIN 51757
Pour point	°C	-54	DIN ISO 3016
Neutralisation number	mg KOH/g	0.01	DIN 51558 part 1
Maximum film temperature	°C	340	
Boiling range (at 1.013 bar)	°C	284-294	
Flash point	°C	135	ISO 2719
Autoignition temperature	°C	545	DIN 51794
Lower explosion limit (132°C)	volume-%	0.8	
Upper explosion limit (206°C)	volume-%	14.5	
Solubility in water (at 20°C)	mg/l	4.0	Quentin method
Surface tension (at 20°C)	mN/m	37	OECD ring method
Thermal conductivity	W/m·K	0.134	
Mean specific heat (20°C)	kJ/kg·K	1.58	

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

Diphyl[®] DT

Storage / Handling / Labeling

Please refer to our Safety Data Sheet.

Shelf Life

Tank container: If stored properly, the shelf life is 2 years.

PE-Container: If stored properly and kept in the original sealed packaging, the shelf life is 2 years.

220 kg Drum: If stored properly and kept in the original sealed packaging, the shelf life is 2 years.

Packaging

Tank container

PE-Container

220 kg Drum

Additional Information

CAS No.:	28299-41-4
EINECS:	248-948-6
REACH:	01-2119496059-26-0000

Application

Applications include:

Diphyl[®] DT is a cost-effective organic HTF-heat transfer fluid of consistent composition for the medium temperature range up to 330°C.

The product is used e.g. for high-boiling, organic heat transfer fluid with a low viscosity and excellent thermal stability for cooling and heating in liquid applications (under N₂ pressure)

- dyestuffs
- paint industries
- chemical industry (Phthalic Anhydride production units)
- polycondensation / polymerization

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