

Technical Information

Diphyl

Article No.:
00033200

Form supplied:

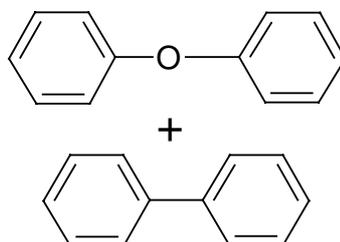
CAS-No. 000101-84-8 (Diphenyl oxide)
000092-52-4 (Diphenyl)

mm = ---

NET

Empirical formula: $C_{12}H_{10}O + C_{12}H_{10}$

Structural formula:



Germ. : Diphyl

Fr. : Diphyl

Span. : Diphyl

Port. : Diphyl

Description : Colourless to yellowish, clear liquid with characteristic odour (geranium).

Valid from: 2003-12-12
Cancels edition dated: 2000-01-01
Reason for issue: General overhaul

Specification No.: 00033200-1-02

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LANXESS Deutschland GmbH
Business Unit Basic Chemicals
D-51369 Leverkusen

Diphyl

Specification :

Assay of diphenyl oxide (gas chromatography):	72-75 %
Assay of diphenyl (gas chromatography):	25-28 %
Chlorine:	max. 10 mg/kg
Solidification point:	min. 12.2 °C
Water (K. Fischer):	max. 200 mg/kg

Specification values are subject to constant monitoring.

Characteristic data :

Kin. Viscosity (DIN 51561):	approx. 4.05 mm ² /s
Density (DIN 51757):	approx. 1062 kg/cm ³
Neutralization number (acid) (DIN 51558 part 1):	approx. 0.01 mg KOH/g
Boiling temperature:	257 °C
Flash point (DIN 51758):	approx. 115 °C
Ignition temperature (DIN 51794):	approx. 615 °C
Lower explosion limit (132 °C):	approx. 1.01 % by vol.
Upper explosion limit (138.5 °C):	approx. 3.47 % by vol.
Solubility in water (20 °C) (Quentin methode):	
-Diphenyl oxide:	approx. 11.3 mg/l
Diphenyl:	approx. 3.9 mg/l
Surface tension (OECD-ring method):	approx. 0.04 N/m
Thermal conductivity (20 °C):	approx. 0.138 W/m k
Mean spec. heat (20 °C):	approx. 1.55 kJ/kg k

Characteristic data provide further information about the product and are not subject to constant monitoring. They are therefore not binding (see notes in last section).

Diphyl

Uses :

High-boiling, organic heat transfer fluid with a low viscosity and excellent thermal stability for cooling and heating in liquid and vapour phase applications (under N₂ pressure).

Range of use: +13 °C- +400 °C.

Typical applications: Fibre, plastics and chemical industries, solar process heat.

Standard packing and storage :

Rail tanker/road tanker.

If correctly stored the shelf life is at least 2 years.

Rolling channel drum, contents approx. 215 kg.

If correctly stored and kept in the original sealed package, the shelf life is at least 2 years

Shipping, toxicity and hazards :

Please note our EU-safety data sheet No. 013033.

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