Technical Information

Diphyl

Article No.:
00033200

Form supplied:

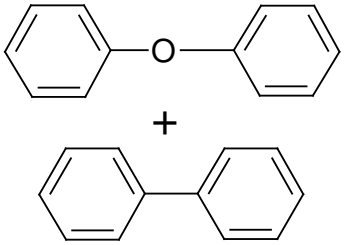
CAS-No. 000101-84-8 (Diphenyl oxide)
000092-52-4 (Diphenyl)

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).

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).

LANXESS Deutschland GmbH
Business Unit Basic Chemicals
D-51369 Leverkusen

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 N_2 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.

LANXESS Deutschland GmbH
Business Unit Basic Chemicals
D-51369 Leverkusen