Technical Information

n-Hexyldiglycol

Description

Clear, mobile, high-boiling, low-volatility liquid for use as a solvent, flow promoter and coalescent.

Chemical nature

Diethylene glycol mono hexyl ether, 2-(2-hexyloxy-ethoxy)-ethanol

Molecular formula	$C_{10}H_{22}O_3$
Molar mass	190.28 g/mol
CAS number	112-59-4
EC number	203-998-3

Delivery specification

Property	Value	Unit	Test method
n-Hexyldiglycol	80.0 min.	%	GC-Method BASF
Water	0.1 max.	%	DIN 51777, Part 1
Pt/Co color value (Hazen)	10 max.	-	DIN EN ISO 6271

Properties

n-Hexyldiglycol is a clear, mobile, neutral, slightly hygroscopic liquid with a mild odor. It is miscible with all common solvents, e. g. alcohols, ketones, aldehydes, ethers, glycols and aromatic and aliphatic hydrocarbons. Its miscibility with water, however, is limited.

n-Hexyldiglycol enters into the typical reactions of alcohols, e. g. esterification, etherification, oxidation and the formation of alcoholates. Like all other ethers, it may form peroxides if it comes into contact with atmospheric oxygen.

Physical data

The following physical data were measured in the BASF SE laboratories. They do not represent any legally-binding guarantee of properties for our sales product.

Property	Condition	Unit	Test method
Boiling range	at 1013 hPa	262 °C	DIN 51751
Density	at 20 °C	0.93 g/cm^3	DIN 51757
Viscosity	at 20 °C	8.6 mPa.s	

Applications

Selected applications are described below.

By virtue of its good solvent power, the main applications of n-Hexyldiglycol are as a solvent, flow promoter and coalescent aid.

For instance, it improves the flow of many baking finish systems. Added in small proportions to formulations for electrodeposition paints, it greatly improves film formation and levelling.

n-Hexyldiglycol can also be used in printing inks and cleaners.

Storage & Handling

n-Hexyldiglycol should be stored under nitrogen. The storage temperature must not exceed 40 °C and moisture are excluded. Under these conditions, a storage stability of 12 months can be expected.

Safety

When using this product, the information and advice given in our Safety Data Sheet should be observed. Due attention should also be given to the precautions necessary for handling chemicals.

Note

The data contained in this Technical Information is based on our current knowledge and experience as well as our investigations according to the today's state-of-the-art. In view of the many factors that may affect processing and application of the Product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the Product for specific purpose. No liability of BASF can be derived therefrom. It is the responsibility of the recipient of the Product to ensure that any proprietary rights and existing laws and legislation are observed.

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