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Solvenon® PnB

Solvenon® PnB is a colorless, highly volatile glycol ether with good solvent properties.

Chemical nature

Propylene glycol monobutyl ether, 1-Butoxy-2-propanol

Molecular formula $C_7H_{16}O_2$

Molar mass 132.2 g/mol

CAS-No. 5131-66-8

EC-No. 225-878-4

Delivery specification

Property	Value	Unit	Test method
- Butoxy propanols	99.0 min.	%	GC-Method BASF
- Water	0.1 max.	%	DIN 51777, Part 1
Pt/Co color value (Hazen)	15 max.	-	DIN EN ISO 6271
Acid value	< 0.1	mg KOH/g	DIN EN ISO 2114

Properties

Solvenon® PnB is mixable with most organic solvents and partly soluble in water. These properties are required, for example, for printing ink thinners and water-based paints. Solvenon® PnB is strongly lipophilic. Its oil and fat dissolving properties make it highly suitable for use in products such as cleaning agents and metal degreasers. Solvenon® PnB is a low odor liquid, which, in combination with its surface tension lowering properties, means that it is often used in products such as water-based cleansers. The spreading characteristics of Solvenon® PnB are at least comparable with those of butyl glycols, in part better.

The outstanding film-building and drying properties of Solvenon® PnB make it an effective coalescing agent for dispersion paints, e. g. acrylic styrol acrylic and polyvinyl acetate dispersions.

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	Value	Test method
Boiling range	at 1013 hPa	165°C – 175°C	
Density	at 20°C	0.87 – 0.89 g/cm ³	
Refractive index n _{20D}		1.417 – 1.420	
Evaporation rate	ether = 1	125	DIN 53170

Applications

Uses of Solvenon® PnB include:

- dispersion paints
- solvent-based coating materials
- household and industrial cleaning agents
- paint stripper and metal cleaner
- cosmetic products
- printing inks.

Storage & Handling

Solvenon® PnB 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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BASF SE - Industrial Petrochemicals Europe
E-CPI/M - H201
67056 Ludwigshafen, Germany

Visit us online at <http://www.solvents.basf.com>