

POLYGLYKOL B 01/100

# Technical Data Sheet

## POLYGLYKOL B 01/100

### Base oil component for industrial applications

<b>Composition</b>	Polypropylene glycol monobutylether $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2(\text{OCH}_2\text{CHCH}_3)_n \text{OH}$
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#### Product properties <sup>1</sup>

<b>Appearance (20°C)</b>	Clear viscous liquid
<b>Color index [APHA] EN 1557</b>	Max. 100
<b>Refractive index (20°C) DIN 51432</b>	Approx. 1.488
<b>Molecular weight</b>	Approx. 2200 g/mol
<b>Water content DIN 51777</b>	Max. 0.25 %
<b>pH value (10% in EtOH/water 1:1)</b>	Approx. 5.0 – 7.0
<b>Density (20°C) DIN 51757</b>	Approx. 0.997 g/cm <sup>3</sup>
<b>Viscosity (40°C) DIN 51562</b>	Approx. 145 mm <sup>2</sup> /s
<b>Viscosity (100°C) DIN 51562</b>	Approx. 25 mm <sup>2</sup> /s
<b>Viscosity index ASTM D 2270</b>	Approx. 211
<b>Pour point ISO 3016</b>	Approx. -40°C
<b>Flash point DIN 51376</b>	Approx. 240°C
<b>Ignition temperature DIN 51794</b>	Approx. 370°C
<b>Four ball test DIN 51350/3B (60min. / 300N)</b>	Approx. 0.47 mm
<b>Seizure / welding load</b>	Approx. 1300 / 1800 N

#### Profile

#### Product properties

Polyglykol B 01/100 is a clear neutral, viscous liquid at room temperature. Polyglykol B 01/100 is insoluble in water, but soluble in many polar organic solvents like acetone or methanol. Polyglykol B 01/100 can be dispersed much better in pure hydrocarbon

**Publisher**  
Rothausstrasse 61  
4132 Muttenz  
Switzerland

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**Issue**  
May 2023

<sup>1</sup> These characteristics are for guidance only and not to be taken as product specifications. The tolerances are given in the product specification sheet. For further product properties, specifications, safety, and ecological data, please refer to the MSDS.

solvents than the more hydrophilic B 11-type polyglycols. Polyglykol B 01/100 displays a very low solidification point of  $-40^{\circ}\text{C}$  and no evaporation loss even at temperatures as high as  $100^{\circ}\text{C}$ . Polyglykol B 01-types have a very low hygroscopy compared to other Polyglykol-types.

## Application

Based on their physical and chemical characteristics B 01-type polyglycols are used for a wide variety of applications.

Fields of industrial application:

- Base oil component for high performance lubricants with low friction coefficients, excellent wear properties and good thermal stability
- Lubricant for refrigeration compressors
- Lubricating component of metalworking fluids
- Component of auxiliaries for leather and textile processing
- Component for defoamer formulations
- Reactive alcohol component in chemical reactions
- Solvent for dyes and inks
- Dispersant for pigments

To increase the stability against thermo oxidative degradation, Lubricant Additive 1655 can be used.

## Storage instructions

When stored in a cold, dry place in a closed container Polyglykol B 01/100 can be kept for at least two years.

## Safety

Further information on handling, storage and dispatch is given in the safety data sheet.

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