

# Technical Data Sheet

## POLYGLYKOL B 01/10

Base oil component for industrial applications

<b>Composition</b>	Polypropylene glycol monobutylether $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2(\text{OCH}_2\text{CHCH}_3)_n$ OH
<b>Product properties</b> <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. 1.441 -1.443
<b>Molecular weight</b>	Approx. 600 g/mol
<b>Water content DIN 51777</b>	Max. 0.5 %
<b>pH value (10% in EtOH/water 1:1)</b>	Approx. 5.0 – 7.0
<b>Density (20°C) DIN 51757</b>	Approx. 0.962 – 0.972 g/cm <sup>3</sup>
<b>Viscosity (40°C) DIN 51562</b>	Approx. 15 mm <sup>2</sup> /s
<b>Pour point ISO 3016</b>	Approx. -50°C
<b>Flash point DIN 51376</b>	Approx. 220°C
<b>Ignition temperature DIN 51794</b>	Approx. 345°C

### Profile

#### Product properties

Polyglykol B 01/10 is a clear, neutral, and viscous liquid at room temperature. It is insoluble in water, but soluble in many polar organic solvents like acetone or methanol. Polyglykol B 01/10 can be dispersed much better in pure hydrocarbon solvents than the more hydrophilic B 11-type polyglycols. It displays a very low solidification point of -50°C and no evaporation loss, even at temperatures as high as 100°C. Polyglykol B 01-types have a very low hygroscopy compared to other Polyglykol-types.

<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.

## Thermo-oxidative degradation

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

Table 2

Addition of LA 1655	Temperature 5% mass loss °C	Temperature 10% mass loss °C	Center point T °C	Inflection point T °C	Residue %
none	184.00	194.00	227.57	239.67	0.0
+ 3% LA 1655	200.86	222.44	258.17	268.17	0.0

## 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 for 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

## Safety

Please see Material Safety Data Sheet before handling the material.

## Storage behaviour

When stored in a cold, dry place in a closed container Polyglykol B 01/10 can be kept for at least two years.

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