CLARIANT

Technical Data Sheet
POLYGLYKOL B 01/20

CLARIANT INTERNATIONAL LTD

Rothausstrasse 61
4132 Muttenz
Switzerland

BUSINESS UNIT INDUSTRIAL & CONSUMER SPECIALTIES

www.ics.clariant.com
www.clariant.com

Base oil component for industrial applications

Composition	Polypropylene glycol monobutylether $CH_3CH_2CH_2CH_2(OCH_2CHCH_3)_n OH$
Product properties [1]	
Appearance (20°C)	Clear viscous liquid
Color index [APHA] EN 1557	Max. 100
Refractive index (20°C) DIN 51432	Approx. 1.445 -1.447
Molecular weight	Approx. 950 g/mol
Water content DIN 51777	Max. 0.5 %
pH value (10% in EtOH/water 1:1)	Approx. 5.0 – 7.0
Density (20°C) DIN 51757	Approx. 0.978 – 0.982 g/cm³
Viscosity (40°C) DIN 51562	Approx. 30 mm²/s
Viscosity (100°C) DIN 51562	Approx. 6 mm²/s
Viscosity index ASTM D2270	Approx. 178
Pour point ISO 3016	Approx. -50°C
Flash point DIN 51376	Approx. 225°C
Ignition temperature DIN 51794	Approx. 345°C
Four ball test DIN 51350/3B (60min. / 300N)	Approx. 0.65 mm
Seizure / welding load	Approx. 1200 / 1500 N

Profile

Product properties

Polyglykol B 01/20 is a clear neutral, viscous liquid at room temperature. Polyglykol B 01/20 is insoluble in water but soluble in many polar organic solvents like acetone or methanol. Polyglykol B 01/20 can be dispersed much better in pure hydrocarbon solvents than the more hydrophilic B 11-type polyglycols. Polyglykol B 01/20 displays a very low solidification point of –50°C and no evaporation loss even at temperatures as high as 100°C.

[1] 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.

CLARIANT INTERNATIONAL LTD

Rothausstrasse 61
4132 Muttenz
Switzerland

BUSINESS UNIT INDUSTRIAL & CONSUMER SPECIALTIES

www.ics.clariant.com
www.clariant.com

Polyglykol B01-types have a very low hygroscopy compared to other Polyglykol-types.

Solubility

Table 2

Solubility	Water	Nynas T22	Rapseed oil	Sunflower oil	Shell Ondina 917
	-	✓	✓	✓	✓

Solubility	Priolube 1943 (Trimelliate ester)	Hostagliss® TPO (Polyol ester)	PAO (SpectraSyn 4)
	✓	✓	-

✓ Soluble
- Insoluble

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.

CLARIANT

CLARIANT INTERNATIONAL LTD

Rothausstrasse 61
4132 Muttenz
Switzerland

BUSINESS UNIT INDUSTRIAL & CONSUMER SPECIALTIES

www.ics.clariant.com
www.clariant.com

Sustainability

Polyglykol B 01/20 is readily biodegradable. It is included in the LuSC-list (Lubricant Substance Classification list) and meets the EU Ecolabel criteria for lubricants (Commission decision 2018 / 1702 / EU).

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 01/20 can be kept for at least two years.