

# Technical Data Sheet POLYGLYKOL B 11/100

CLARIANT INTERNATIONAL LTD

Rothausstrasse 61 4132 Muttenz Switzerland

BUSINESS UNIT INDUSTRIAL & CONSUMER SPECIALTIES

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# Base oil component for industrial applications

Composition	Polyalkylene glycol (ethylene
	oxide/propylene oxide random
	copolymer mono butyl ether)
	$CH_3CH_2CH_2CH_2(OCH_2CH_2)n(O$
	CH <sub>2</sub> CHCH <sub>3</sub> )m OH n:m = 1:1
Product properties <sup>1</sup>	
Appearance (20°C)	Clear viscous liquid
Color index [APHA] EN 1557	Max. 50
Refractive index (20°C) DIN 51432	Approx. 1.456 -1.460
Molecular weight	Approx. 1850 g/mol
Water content	Max. 0.5 %
pH value (10% w/w in water) DIN EN 1262	Approx. 5.0 – 7.0
Density (20°C) DIN 51757	Approx. 1.040 – 1.050 g/cm³
Viscosity (40°C) DIN 51562	Approx. 121 mm <sup>2</sup> /s
Viscosity (100°C) DIN 51562	Approx. 24 mm <sup>2</sup> /s
Viscosity index ASTM D2270	Approx. 232
Cloud point (1% in aq.)	Approx. 50°C
Pour point ISO 3016	Approx45°C
Flash point DIN 51794	Approx. 250°C
Ignition temperature DIN 51794	Approx. 360°C
Sodium content	Max. 10ppm
Four ball test DIN 51350/3B	Approx. 0.65 mm
(60min. / 300N)	
Seizure / welding load	Approx. 1300 / 1800 N

### **Profile**

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<sup>&</sup>lt;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.



# **Product properties**

Polyglykol B 11/100 is a clear neutral viscous liquid at room temperature. It is soluble in water and polar organic solvents like acetone or methanol at room temperature. Polyglykol B 11/100 is insoluble in pure hydrocarbons. Polyglykol B 11/100 displays a very low solidification point of –45°C and no evaporation loss even at temperatures as high as 100°C. The hygroscopy of polyglycols increase with the EO ratio in the polymer. Polyglykol B 11/100 is also acceptable as an ingredient for the use in lubricants with incidental food contact (HX-1) for use in and around food processing areas according to NSF (International / Nonfood Compounds

# **Application**

Based on their physical and chemical characteristics B 11-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 high pressure compressors

Registration Program; Registration No. 153100).

- Water soluble, lubricating component of metalworking fluids
- Component of auxiliaries for leather and textile processing
- Defoamer for food and non-food applications
- Reactive alcohol component in chemical reactions
- Solvent and humectants for dyes and inks
- Heat transfer medium
- Conveyor lubricants

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

### Sustainability

Polyglykol B 11/100 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.

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## Storage behaviour

When stored in a cold, dry place in a closed container Polyglykol B 11/100 can be kept for at least two years.

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