

Product Fact Sheet



POLYGLYKOL[®] PR 600

Base oil component

COMPOSITION

Polyalkylenglycol
 $H(OCH_2CH_2)_n(OCHCH_3CH_2)_m OH$
 $n+m = 13$
CAS-No.: 9003-11-6

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PRODUCT PROPERTIES ^{*)}		approx.	
Appearance at 20 °C	Clear liquid	Density (DIN 51757)	[g/cm ³] (20 °C) 1.112 – 1.116
Colour index [APHA] (EN 1557)	max. 50	Viscosity (DIN 51562)	[mm ² /s] (40 °C) 55
Refractive index at 20°C (DIN 51432, Part 2)	1.466 – 1.470	Viscosity (DIN 51562)	[mm ² /s] (100 °C) 10
Molecular weight	[g/mol] 570 – 630	Viscosity Index (ASTM D2270)	171
Water content (DIN 51777)	[%] max. 0.5	Pour point (ISO 3016)	[°C] - 5
pH value (10% w/w in water) (DIN EN 1557)	4 – 7	Flash point (DIN 51376)	[°C] 265
Four ball test (DIN 51350/3 B 60 min. / 300 N)	[mm] 0.5	Ignition temperature (DIN 51794)	[°C] 390
Seizure Load/Welding Load	[N] 1400/1800		

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^{*)} These characteristics are for guidance only and are not to be taken as product specifications. The tolerances are given in the product specification sheet. For further information on product properties, toxicological, ecological and safety data, please refer to the safety data sheet.

PRODUCT PROPERTIES

Polyglykol PR 600 is a clear neutral liquid at room temperature. Polyglykol PR 600 is soluble in water and polar organic solvents like acetone or methanol. Polyglykol PR 600 is insoluble in pure hydrocarbons. Polyglykol PR 600 displays typical chemical reactions of alcohols/diols. The solidification point, of Polyglykol PR 600 is about 20 °C lower than that of the polyethylene glycol 600. This simplifies handling of Polyglykol PR 600 at low temperatures. Besides the lower solidification point properties in general are very similar to polyethylene glycol 600. Polyglykol PR 600 has a very high hygroscopy compared to other Polyglykol-types.

STORAGE

When stored in a cold, dry place in a closed container Polyglykol PR 600 can be kept for at least two years.

APPLICATION

Based on their physical and chemical characteristics PR-type polyglycols similar to polyethylene glycols are used for a wide variety of applications.

Fields of industrial application:

- Reactive diol/polyether component in polyester or polyurethane resins
 - Component of auxiliaries for leather and textile processing
 - Lubricant and mould release agent for rubber and elastomer processing
 - Component of lubricant formulations
 - Water soluble, lubricating component of metalworking fluids
 - Humectant for paper, wood and cellulose films
 - Solvent and humectant for dyes and inks
 - Modifier for production of regenerated viscose
 - Humectant and plasticizer for adhesives
 - Heat transfer medium
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