

Technical Data Sheet

POLYGLYKOL P 41/3000

Base oil component for industrial applications

Composition	random, branched ethylene oxide/ propylene oxide-Copolymer $H(OCH_2CH_2)_n(OCH_2CHCH_3)_m$ m OH n:m = 4:1
Product properties ¹	
Appearance (20°C)	Clear, viscous liquid
Color index [APHA] EN 1557	Max. 100
Refractive index (20°C) DIN 51432	Approx. 1.465 -1.469
Molecular weight	Approx. 15000 g/mol
Water content DIN 51777	Max. 0.5 %
pH value (10% w/w in water) DIN EN 1262	Approx. 5.0 – 7.0
Density (20°C) DIN 51757	Approx. 1.092 – 1.096 g/cm ³
Viscosity (40°C) DIN 51562	Approx. 5000 mm ² /s
Cloud point (1% in aq.)	Approx. 80°C
Pour point ISO 3016	Approx. 0°C
Flash point DIN 51376	Approx. 260°C
Ignition temperature DIN 51794	Approx. 345°C
Four ball test (60 min. / 300 N) DIN 51350/3 B	Approx. 0.68 mm

Profile

Product properties

Polyglykol P 41/3000 is a clear neutral viscous liquid at room temperature. Polyglykol P 41/3000 is soluble in water and polar organic solvents like acetone or methanol at room temperature. It is insoluble in pure hydrocarbons. Polyglykol P 41/3000 displays typical chemical reactions of alcohols/polyols. The solidification point of Polyglykol P 41/3000 is 0°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.

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Application

Based on their physical and chemical characteristics P 41-type polyglycols are used for a wide variety of applications.

Fields of industrial application:

- Reactive polyol/polyether component in polyester or polyurethane resins as crosslinker
- Component of auxiliaries for leather and textile processing
- Lubricant and mold release agent for rubber and elastomer processing
- Plasticizer and binder for ceramic and concrete manufacturing
- Component of lubricant formulations
- Water soluble, lubricating, and thickening 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

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 P 41/3000 can be kept for at least two years.

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