

POLYGLYKOL P 41/12000

# Technical Data Sheet

## POLYGLYKOL P 41/12000

### Base oil component for industrial applications

<b>Composition</b>	Random, branched ethylene oxide/ propylene oxide-Copolymer $H(OCH_2CH_2)_n(OCH_2CHCH_3)_m OH$ n:m = 4:1
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<b>Product properties <sup>1</sup></b>	
<b>Appearance (20°C)</b>	Clear to turbid liquid
<b>Color index [APHA] EN 1557</b>	Max. 100
<b>Refractive index (20°C) DIN51432</b>	Approx. 1.465 – 1.469
<b>Molecular weight</b>	Approx. 20000 g/mol
<b>Water content DIN 51777</b>	Max. 0.5%
<b>pH value (10% w/w in water) DIN EN 1262</b>	Approx. 5.0 – 7.0
<b>Density (20°C) DIN 51757</b>	Approx. 1.091 – 1.095 g/cm <sup>3</sup>
<b>Viscosity (40°C) DIN 51562</b>	Approx. 19000 mm <sup>2</sup> /s
<b>Cloud point (1% in aq.)</b>	Approx. 75°C
<b>Pour point ISO 3016</b>	Approx. 0°C
<b>Flash point DIN51376</b>	Approx. 260°C
<b>Ignition temperature DIN 51794</b>	Approx. 450°C

### Profile

#### Product properties

Polyglykol P 41/12000 is a clear neutral viscous liquid at room temperature. Polyglykol P 41/12000 is soluble in water and polar organic solvents like acetone or methanol at room temperature. It is insoluble in pure hydrocarbons. Polyglykol P 41/12000 displays typical chemical reactions of alcohols/polyols. The solidification point of Polyglykol P 41/12000 is 0°C.

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<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.

## Application

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

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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

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## Storage instructions

When stored in a cold, dry place in a closed container, Polyglykol P 41/12000 can be kept for at least two years. Prolonged storage of the IBC container above 70°C can lead to the deformation of the PE bladder part of the packaging.

## Safety

Further information on handling, storage and dispatch is given in the safety data sheet.

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