
Polyglykol 1000

Composition

Polyethylene glycol
 $\text{H}(\text{OCH}_2\text{CH}_2)_n\text{OH}$
 $n = 22$

CAS-No.: 25322-68-3

INCI-description: PEG-20

Product properties^{*)}

Polyglykol 1000 is a white waxy solid at room temperature. Polyglykol 1000 can be supplied in heated tank trucks or in steel drums. Its two hydroxy end groups as well as its ether groups mainly control the physical and chemical properties of Polyglykol 1000. Therefore Polyglykol 1000 is soluble in water and polar organic solvents like acetone or methanol. Polyglykol 1000 is insoluble in pure hydrocarbons. Polyglykol 1000 displays typical chemical reactions of alcohols/diols.

The solidification point of Polyglykol 1000 is about 38 °C.

Storage

When stored in a cold, dry place in a closed container Polyglykol 1000 can be kept for at least two years.

Applications

Based on their physical and chemical characteristics - 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
- Cosmetic / pharmaceutical formulations (e.g. humectant or solubilizer for creams, shampoos, tooth paste)
- Lubricant and mould release agent for rubber and elastomer processing
- Plasticizer and binder for ceramic and concrete manufacturing
- Component of lubricant formulations
- Water soluble, lubricating component in metal-working 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

^{*)} These characteristics are guidance only and not 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.

 Polyglykol 1000

Product data^{*)}

water content (DIN 51777)	% m/m	max. 0.5
colour index [APHA] (EN 1557) (25 % in water)		max. 30
pH (5 % w/w in water) (DIN EN 1262)		5 – 7
hydroxyl number (HOE 06 HB 0211)	mg KOH/g	107 – 118
molecular weight	g/mol	950 – 1050
solidification point (EP III)	°C	35 – 40
viscosity at 20°C (50 % w/w in water) (DIN 51562)	mPas	24 - 28
flash point (DIN 51376)	°C	270
ignition temperature (DIN 51794)	°C	320
ethyleneoxid	ppm	max. 1
dioxane	ppm	max. 1

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Conditions of Sale.

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