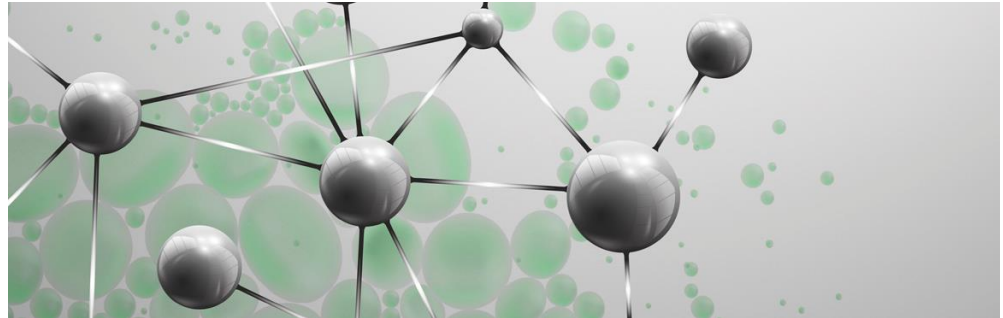


Product Sheet

POLYGLYKOL

Polyglykol
8000 FL
8000 S
8000 P / PF /
PS



Composition

Polyethylene glycol
 $\text{H}(\text{OCH}_2\text{CH}_2)_n\text{OH}$
 $n = 180$

CAS-No.: 25322-68-3
INCI-description: PEG-180

Product properties*

The physical and chemical properties of polyethylene glycols are mainly determined by the two hydroxyl end groups, the ether groups as well as the molecular weight. Polyglykol 8000 is a yellowish wax-like solid at room temperature. Polyglykol 8000 is soluble in water and polar organic solvents like acetone or methanol. Polyglykol 8000 is insoluble in pure hydrocarbons. Polyglykol 8000 shows typical chemical reactions of alcohols/diols and a very low evaporation rate. The solidification point of Polyglykol 8000 is about 58 °C.

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Product data*

Delivery form for 8000 FL for 8000 P / PF / PS for 8000 S			liquid powder flakes
water content for 8000 FL for 8000 S/P/PF/PS	DIN 51777	% w/w	max. 0,1 max. 0,5
colour index [APHA] (25 % w/w in water)	EN 1557		max. 30
pH (5 % w/w in water)	DIN EN 1262		5 – 7
hydroxyl number	DIN 53240	mg KOH/g	12 – 16
molecular weight		g/mol	7300 – 9000
solidification point (EP III)		°C	55 – 60
viscosity at 20°C (50 % w/w in water)	DIN 51562	mPa·s	290 – 450
flash point	DIN 51376	°C	255
ignition temperature	DIN 51794	°C	> 320
ethylene oxide		ppm	max. 1
dioxane		ppm	max. 1

Industrial Applications

Due to their physical and chemical properties polyethylene glycols are used for a wide variety of applications as:

- Reactant
Reactive diol/polyether component in polyester or polyurethane resins
- Solvent / Humectant / Plasticizer
Paper, wood, cellulose films, inks, paints, coatings, adhesives, sealants, concrete
- Release agent / Lubricant
mould release agent for rubber and elastomer processing, lubricant formulations, metal working fluids
- Binder for ceramics
- Component of auxiliaries for fiber, textile and leather processing
- Heat transfer medium

Shipping and Storage

Polyglykol 8000 FL can be supplied in heated tank trucks and should be stored as melt at 60 – 80 °C under nitrogen and not longer than 6 months.

Polyglykol 8000 S, P, PF, and PS can be supplied in 20 kg sacks or in big packs and can be kept for at least two years, when stored in a cold, dry place in a closed container.

REFERENCE

*) These characteristics are 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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