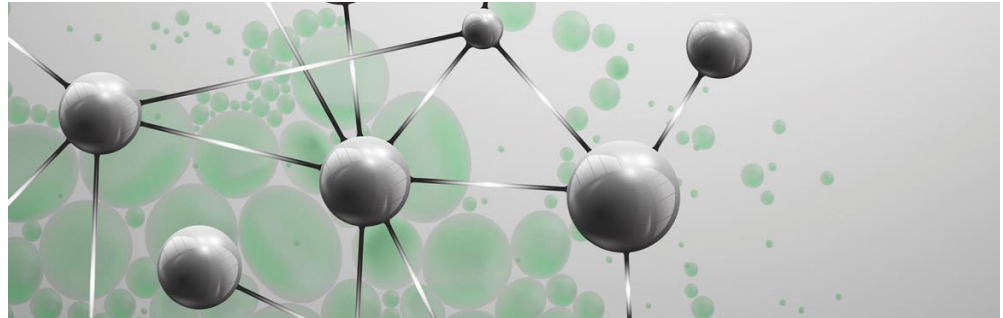


Product Sheet

POLYGLYKOL

Polyglykol
400



Composition

Polyethylene glycol
 $H(OCH_2CH_2)_nOH$
 $n = 8-9$

CAS-No.: 25322-68-3
INCI-description: PEG-8

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 400 is a clear viscous liquid at room temperature. Polyglykol 400 is soluble in water and polar organic solvents like acetone or methanol. Polyglykol 400 is insoluble in pure hydrocarbons. Polyglykol 400 shows typical chemical reactions of alcohols/diols and a very low evaporation rate. The solidification point of Polyglykol 400 is about $-50\text{ }^{\circ}\text{C}$.

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Product data*

water content	DIN 51777	% w/w	max. 0,5
colour index [APHA] (25 % w/w in water)	EN 1557		max. 15
pH (5 % w/w in water)	DIN EN 1262		5 – 7
hydroxyl number	DIN 53240	mg KOH/g	267 – 295
molecular weight		g/mol	380 – 420
solidification point (EP III)		°C	4 – 8
viscosity at 20°C	DIN 51562	mPa·s	112 – 124
flash point	DIN 51376	°C	240
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 400 can be supplied in tank trucks, IBCs or in steel drums.

When stored in a cold, dry place in a closed container Polyglykol 400 can be kept for at least two years.

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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