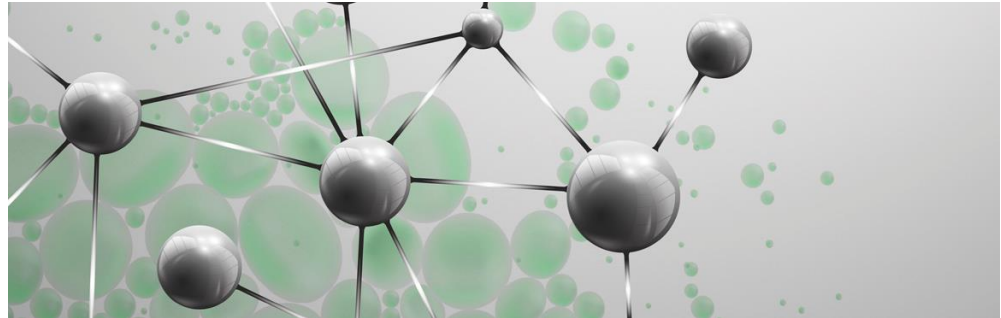


Product Sheet

POLYGLYKOL

Polyglykol
600
600 PU



Composition

Polyethylene glycol
 $H(OCH_2CH_2)_nOH$
 $n = 13$

CAS-No.: 25322-68-3
INCI-description: PEG-12

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 600 is a clear viscous liquid at 30 °C. Polyglykol 600 is soluble in water and polar organic solvents like acetone or methanol. Polyglykol 600 is insoluble in pure hydrocarbons. Polyglykol 600 shows typical chemical reactions of alcohols/diols and a very low evaporation rate. The solidification point of Polyglykol 600 is about 20 °C. Beside our standard quality Polyglykol 600 PU with reduced amounts of residual alkali and water is available. We recommend Polyglykol 600 PU especially for polyurethane synthesis.

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Product data*

water content for 600 for 600 PU	DIN 51777	% w/w	max. 0,5 max. 0,1
colour index [APHA] (25 % w/w in water)	EN 1557		max. 15
pH (5 % w/w in water) for 600 for 600 PU	DIN EN 1262		5 – 7 3 – 5
hydroxyl number	DIN 53240	mg KOH/g	178 – 197
molecular weight		g/mol	570 – 630
solidification point (EP III)		°C	17 – 22
viscosity at 20°C (50 % w/w in water)	DIN 51562	mPa·s	16 – 19
flash point	DIN 51376	°C	265
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 600 can be supplied in tank trucks, IBCs or in steel drums.

When stored in a cold, dry place in a closed container Polyglykol 600 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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