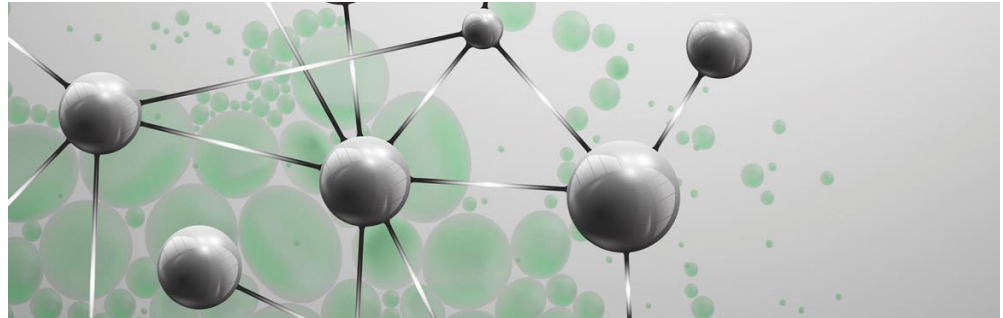


# Product Sheet

## POLYGLYKOL

Polyglykol  
2000 FL  
2000 PU  
2000 S



### Composition

Polyethylene glycol

$H(OCH_2CH_2)_nOH$

$n = 45$

CAS-No.: 25322-68-3

INCI-description: PEG-40

### 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 2000 is a yellowish wax-like solid at room temperature. Polyglykol 2000 is soluble in water and polar organic solvents like acetone or methanol. Polyglykol 2000 is insoluble in pure hydrocarbons. Polyglykol 2000 shows typical chemical reactions of alcohols/diols and a very low evaporation rate. The solidification point of Polyglykol 2000 is about 50 °C. Beside our standard quality Polyglykol 2000 PU with reduced amounts of residual alkali and water is available. We recommend Polyglykol 2000 PU especially for polyurethane synthesis.

CLARIANT INTERNATIONAL LTD  
BU INDUSTRIAL & CONSUMER  
SPECIALTIES

Rothausstrasse 61  
4132 Muttenz  
Switzerland

#### CONTACTS

Technical: + 49 8679 7 17020  
Commercial: + 41 61 469 7847

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## Product data\*

Delivery form for 2000 FL / PU for 2000 S			liquid flakes
water content for 2000 FL / PU for 2000 S	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) for 2000 FL / S for 2000 PU	DIN EN 1262		5 – 7 3 – 5
hydroxyl number	DIN 53240	mg KOH/g	51 – 62
molecular weight		g/mol	1800 – 2000
solidification point (EP III)		°C	48 – 52
viscosity at 20°C (50 % w/w in water)	DIN 51562	mPa·s	50 – 58
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 2000 FL and Polyglykol 2000 PU can be supplied liquid in heated tank trucks. Polyglykol 2000 S can be supplied in 20 kg sacks or in big packs.

When stored in a cold, dry place in a closed container Polyglykol 2000 can be kept for at least two years.

## REFERENCE

<sup>\*)</sup> 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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