

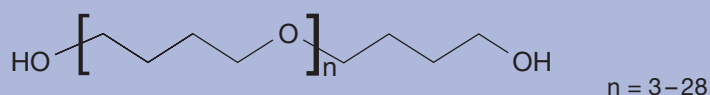
® = registered trademark of BASF SE

PolyTHF®

Synonyms

Polytetrahydrofuran
PTHF
Polytetramethylene ether glycol
PTMEG
PTMG
Polybutylene glycol

Chemical Structure



Cas No.

25190-06-1

Alpha-hydroxy-omega-hydroxypoly(oxy-1,4-butanediyl)

Packaging

Bulk Tank container
Drum 200 kg steel drum (packaging specification available on request)

Product Grades

PolyTHF 250 techn.
PolyTHF 650 S
PolyTHF 1000 (S)
PolyTHF 1400
PolyTHF 1800
PolyTHF 2000

Average molecular weights are determined based on OH numbers.
Please enquire for further molecular weights.

All PolyTHF designations are typically stabilized with 200–350 ppm of BHT (3,5-Di-tert. **B**utyl-4-**h**ydroxy**t**oluene). The letter S following a molecular weight refers to an additional dotation with acid.

Form & Solubility

Liquid (lower molecular weights) to white, waxy solid at room temperature. Will melt to yield a colourless, clear liquid. Soluble in many conventional organic solvents. Practically insoluble in water.

REACH

Polymers do not have to be registered under REACH (EC 1907/2006, Article 2 (9)).

The Monomer (THF) is registered by BASF according to (EC 1907/2006, Article 6 (3)).
REACH Reg.-No. 01-2119444314-46-XXXX

Specifications

Detailed specifications for each product are available from BASF.

Physical properties

The data on physical properties presented below has been compiled from our own measurements or taken from the literature. The values quoted are not binding for our commercial products.

PolyTHF 250 technical grade

Softening point -14 °C (DIN 53180)

Flash point 180 °C (DIN 51376)

Density (DIN 51757)	°C	20	30	40	60	75	100
	g/cm ³		1.000	0.996	0.991	0.980	0.970
Viscosity (DIN 51562)	°C	20	30	40	60	75	100
	mPa·s	158	94	60	25	17	10

PolyTHF 650 S

Softening point 25 °C (DIN 53180)

Flash point 215 °C (DIN 51376)

Density (DIN 51757)	°C	30	40	60	75	100
	g/cm ³		0.983	0.977	0.964	0.953
Viscosity (DIN 51562)	°C	30	40	60	75	100
	mPa·s	341	209	100	55	27

PolyTHF 1000 (S)

Softening point 26 °C (DIN 53180)

Flash point 240 °C (DIN 51376)

Density (DIN 51757)	°C	30	40	60	75	100
	g/cm ³		0.982	0.975	0.962	0.952
Viscosity (DIN 51562)	°C	30	40	60	75	100
	mPa·s	440	288	129	79	46

PolyTHF 1400

Softening point 26 °C (DIN 51007)

Flash point 243 °C (DIN 51376)

Density (DIN 51757)	°C	30	40	60	75	100
	g/cm ³		0.982	0.975	0.961	0.952
Viscosity (DIN 51562)	°C	30	40	60	75	100
	mPa·s	1051	580	243	141	78

PolyTHF 1800

Softening point 27 °C (DIN 53180)

Flash point 244 °C (DIN 51376)

	°C	40	60	75	100
Density (DIN 51757)	g/cm ³	0.974	0.961	0.950	0.934
Viscosity (DIN 51562)	°C	40	60	75	100
	mPa·s	1000	439	262	131

PolyTHF 2000

Softening point 35 °C (DIN 53180)

Flash point 246 °C (DIN 51376)

	°C	40	60	75	100
Density (DIN 51757)	g/cm ³	0.975	0.960	0.951	0.934
Viscosity (DIN 51562)	°C	40	60	75	100
	mPa·s	1350	599	346	174

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

The safety data given in this publication is for information purposes only and does not constitute a legally binding Material Safety Data Sheet (MSDS).

The relevant MSDS as well as additional declarations can be obtained upon request from your sales representative directly.

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Marketing Butandiol & Derivatives