

# Butyltriglycol

Low-volatility, high-boiling, clear, odourless liquid. The Butyltriglycol supplied by BASF SE is a technical-grade product.

## Chemical nature

Mixture of ethylene glycol monoalkyl ethers

The main components are:

Components	CAS-No.	EC-No.
Triethylene glycol monobutyl ether	143-22-6	205-592-6
Tetraethylene glycol monobutyl ether	1559-34-8	216-322-1

## Delivery specification

Property	Value	Unit	Test method
Butyltriglycol	66 min.	%	GC-Method BASF
Mass fraction of			
- Water	0.1 max.	%	DIN 51777, Part 1
Pt/Co color value (Hazen)	50 max.	-	DIN EN ISO 6271

## Properties

Butyltriglycol is a clear, low-volatility, mobile liquid with a very faint, mild odour. It is miscible with many common solvents, e. g. aliphatic hydrocarbons, alcohols, ketones, aldehydes, ethers, glycols, glycol ethers and water. Butyltriglycol may form peroxides, if it comes into contact with atmospheric oxygen.

**Physical data**

The following physical data were measured in the BASF SE laboratories. They do not represent any legally-binding guarantee of properties for our sales product.

Property	Condition	Value	Test method
Boiling range	at 1013 hPa	265 – 350°C	DIN 53171
Density	at 20°C	0.990 – 0.998 g/cm <sup>3</sup>	DIN 51757
Viscosity	at 20°C	10 – 11 mPa·s	
Refractive index n <sub>20D</sub>		1.440 – 1.442	DIN 51423
Evaporation rate	ether = 1	Approx. 8000	DIN 53170
Flash point		131°C	DIN 51755
Ignition temperature		202°C	DIN 51794

**Applications**

The main applications for Butyltriglycol are reviewed below but the list is by no means complete.

Butyltriglycol can be used as:

- a low-volatility solvent component in various paint systems to improve gloss and levelling
- an ingredient for cutting oils
- an additive for metal degreasers and floor cleaners etc.
- a co-solvent for printing inks, stamp-pad inks, writing and drawing inks
- additive for brake fluids. (Note: Butyltriglycol can cause seals to swell if added in large amounts)
- an intermediate in the manufacture of plasticizers.

**Storage & Handling**

Butyltriglycol should be stored under nitrogen. The storage temperature must not exceed 40°C and moisture are excluded. Under these conditions, a storage stability of minimum 12 months can be expected.

**Safety**

When using this product, the information and advice given in our Safety Data Sheet should be observed. Due attention should also be given to the precautions necessary for handling chemicals.

**Note**

The data contained in this Technical Information is based on our current knowledge and experience as well as our investigations according to the today's state-of-the-art. In view of the many factors that may affect processing and application of the 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 specific purpose. No liability of BASF can be derived therefrom. It is the responsibility of the recipient of the Product to ensure that any proprietary rights and existing laws and legislation are observed.

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