

Butyl triglycol

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Low-volatility, high-boiling, clear, odourless liquid. The "butyl triglycol" supplied by BASF Aktiengesellschaft is a technical-grade product.

Nature

Mixture of ethylene glycol monoalkyl ethers

The main components are:

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

Delivery specification

| Property | Value | Unit | Test method |
|----------------------------|-----------|------|-------------------|
| Boiling range at 1013 mbar | 265 – 350 | % | DIN 53171 |
| Water content | max. 0.1 | % | DIN 51777, Part 1 |
| Hazen colour number | max. 50 | – | DIN ISO 6271 |

Physical data

The physical data submitted below were derived from the literature and from BASF measurements and calculations. However, the values presented do not represent a guarantee in the legal sense for the properties of the product that we place on the market.

| | | |
|--|---------------------------------|------------|
| Vapour pressure | at 20 °C | 0.002 mbar |
| | at 50 °C | 0.02 mbar |
| Density at 20 °C (DIN 51757) | 0.990 – 0.998 g/cm ³ | |
| Refractive index n_D^{20} (DIN 51169) | 1.440 – 1.442 | |
| Viscosity at 20 °C (DIN 51562) | 10 – 11 mPa · s | |
| Melting point | approx. – 45 °C | |
| Evaporation rate (DIN 53170; ether = 1) | approx. 8000 | |

Applications

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

Butyl triglycol 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 cosolvent for printing inks, stamp-pad inks, writing and drawing inks
- additive for brake fluids. (Note: butyl triglycol can cause seals to swell if added in large amounts)
- an intermediate in the manufacture of plasticizers.

Safety

A safety data sheet in accordance with EC Directive 91/155/EEC is available for butyl triglycol.

Note

The information submitted in this publication is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

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