

Diethylene glycol monobutyl ether, for analysis, ExpertQ®

Identification

C₈H₁₈O₃
M = 162,23 g/mol
CAS [112-34-5]
EC number: 203-961-6
Taric code: 2909 43 00

**Synonyms**

Butyl diglycol, 2-(2-Butoxyethoxy)ethanol, Butyl carbitol

Applications

synthesis of organic products, solvents.

Specifications

assay (G.C.).....	min. 99 %	iron (Fe).....	max. 0,1 ppm
identity (IR-spectrum).....	passes test	lead (Pb).....	max. 0,1 ppm
density (20°/4°).....	0,951 - 0,954	magnesium (Mg).....	max. 0,1 ppm
free acid (as CH ₃ COOH).....	max. 0,005 %	manganese (Mn).....	max. 0,02 ppm
aluminium (Al).....	max. 0,5 ppm	nickel (Ni).....	max. 0,02 ppm
barium (Ba).....	max. 0,1 ppm	tin (Sn).....	max. 0,1 ppm
boron (B).....	max. 0,02 ppm	zinc (Zn).....	max. 0,1 ppm
cadmium (Cd).....	max. 0,05 ppm	aldehydes (as CH ₃ CHO).....	max. 0,001 %
calcium (Ca).....	max. 0,5 ppm	peroxides (as H ₂ O ₂).....	max. 0,0003 %
chromium (Cr).....	max. 0,02 ppm	residue on ignition.....	max. 0,1 %
copper (Cu).....	max. 0,02 ppm	water (K.F.).....	max. 0,03 %

Physical data

- Density: 0,95 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -68 °C
- Boiling point: 226 - 234 °C
- Flash point: 98 °C
- Ignition temperature: 225 °C
- Vapour pressure: (20 °C) 0,1 hPa
- Refraction index: (n 20 °C/D) 1,4316
- Dielectric const.: (20 °C) 9,7
- Evap. heat: (230 °C) 259 KJ/kg
- Expl. limit (upper): 5,3 Vol%
- Expl. limit (lower): 0,7 Vol%
- pH(20 °C) ~ 7

Safety - GHS

Signal Word: Warning

Hazard Statements:

H319: Causes serious eye irritation.

**Precautionary Statements:**

P280: Wear protective gloves / protective clothing / eye protection / face protection.

P264: Wash thoroughly after handling.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice / attention.

Transport/storage

- 10°C - 30°C