



Product code ET0166

Scharlau Chemie - Technical Data Sheet

Product name Ethylene glycol, reagent grade

Identification

Product code: ET0166
Product name: Ethylene glycol, reagent grade
C₂H₆O₂
M = 62,07 g/mol
CAS [107-21-1]
EC number: 203-473-3
Taric code: 2905 31 00 00

Synonyms

1,2-Ethanediol, Glycol

Specifications

| | | | |
|-----------------------------|-------------------|---|----------------|
| assay (G.C.)..... | min. 99,5 % | iron (Fe)..... | max. 0,00005 % |
| identity (IR-spectrum)..... | passes test | formaldehyde..... | max. 0,005 % |
| density (20°/20°)..... | 1,113 - 1,115 | KMnO ₄ red. matter (as O)..... | max. 0,0003 % |
| colour (Hazen)..... | max. 10 | substances darkened by H ₂ SO ₄ | passes test |
| acidity..... | max. 0,0002 meq/g | sulfated ash..... | max. 0,005 % |
| chlorides (Cl)..... | max. 0,00002 % | water (K.F.)..... | max. 0,1 % |

Physical data

- Form: liquid
- Density: 1,11 g/cm³
- Solub. in water (20 °C): 1000 g/l miscible
- Melting point: -13 °C
- Boiling point: (39 hPa) 117 °C
- Flash point: 111 °C
- Ignition temp.: 410 °C
- Vapour pressure: (20°C) 0,053 hPa
- Viscosity: (20 °C) 21 mPas
- Dielectric const.: (25 °C) 37,7
- Saturation conc.: (20 °C) 0,15 g/m³
- Expl. limit (upper): 12,8 Vol%
- Expl. limit (lower): 1,8 Vol%

Toxicological data

- LD 50 (oral, rat): 4700 mg/kg
- MAK: 10 ml/m³, 26 mg/m³
- WGK: 1
- Poison class CH (Swiss): 4

Safety

- Hazard symbols: Xn (Harmful)
- EC Index no.: 603-027-00-1
- R: 22
- S: 46

Transport/storage

- LGK: 10-13
- Disposal: 1