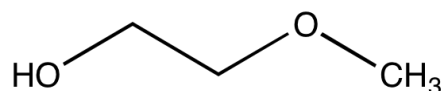


**Identification**

$C_3H_8O_2$   
 M = 76,10 g/mol  
 CAS [109-86-4]  
 EC number: 203-713-7  
 Taric code: 2909 42 00


**Synonyms**

2-Methoxyethanol, Methyl glycol, Methyl cellosolve

**Applications**

analytical chemistry, synthesis of organic products, manufacturing of synthetic resins, manufacture of dyes, for the analysis of: aminoacids.

**Specifications**

|                             |                   |   |               |
|-----------------------------|-------------------|---|---------------|
| assay (G.C.).....           | min. 99,5 %       | copper (Cu).....  | max. 0,02 ppm |
| identity (IR-spectrum)..... | passes test       | iron (Fe).....  | max. 0,5 ppm  |
| density (20°/4°).....       | 0,964 - 0,968     | lead (Pb).....  | max. 0,1 ppm  |
| appearance.....             | clear             | magnesium (Mg).....   | max. 0,1 ppm  |
| colour (Hazen).....         | max. 10           | manganese (Mn).....   | max. 0,02 ppm |
| acidity.....                | max. 0,001 meq/g  | nickel (Ni).....  | max. 0,02 ppm |
| alkalinity.....             | max. 0,0005 meq/g | tin (Sn).....   | max. 0,1 ppm  |
| aluminium (Al).....         | max. 0,5 ppm      | zinc (Zn).....  | max. 0,1 ppm  |
| barium (Ba).....            | max. 0,1 ppm      | aldehydes (as CH <sub>3</sub> CHO).....                     | max. 0,003 %  |
| boron (B).....              | max. 0,02 ppm     | formaldehyde.....   | max. 0,001 %  |
| cadmium (Cd).....           | max. 0,05 ppm     | peroxides (as H <sub>2</sub> O <sub>2</sub> ).....          | max. 0,002 %  |
| calcium (Ca).....           | max. 0,5 ppm      | substances darkened by H <sub>2</sub> SO <sub>4</sub> ..... | passes test   |
| chromium (Cr).....          | max. 0,02 ppm     | residue on evaporation.....                                 | max. 0,002 %  |
| cobalt (Co).....            | max. 0,02 ppm     | water (K.F.).....   | max. 0,1 %    |

**Physical data**

- Density: 0,96 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- Melting point: -85 °C
- Boiling point: 124,5 °C
- Flash point: 38 °C
- Ignition temperature: 285 °C
- Vapour pressure: (20 °C) 11 hPa
- Refraction index: (n 20 °C/D) 1,4021
- Dielectric const.: (20 °C) 15,4
- Evap. heat: (125 °C) 557 KJ/kg
- Saturation conc.: (20 °C) 33 g/m<sup>3</sup>
- Expl. limit (upper): 20 Vol%
- Expl. limit (lower): 2,5 Vol%

**Safety - GHS**

**Signal Word:** Danger

**Hazard Statements:**

- H360FD: May damage fertility. May damage the unborn child.  
 H226: Flammable liquid and vapour.  
 H302: Harmful if swallowed.  
 H312: Harmful in contact with skin.  
 H332: Harmful if inhaled.  
 H370: Causes damage to organs.  
 H373: May cause damage to organs through prolonged or repeated exposure.


**Precautionary Statements:**

- P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.  
 P241: Use explosion-proof electrical / ventilating / lighting / equipment.  
 P261: Avoid breathing dust / fume / gas / mist / vapours / spray.  
 P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.  
 P405: Store locked up.  
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Toxicological data**

- LD 50 (oral, rat): 2370 mg/kg
- MAK: 5 ml/m<sup>3</sup>, 16 mg/m<sup>3</sup>
- WGK: 1
- Poison class CH (Swiss): 2

**Transport/storage**

- ADR: 3 F1 III • UN 1188 • ETHYLENE GLYCOL MONOMETHYL ETHER
- IMDG: 3 III • UN 1188 • ETHYLENE GLYCOL MONOMETHYL ETHER
- IATA/ICAO: 3 III • UN 1188 • ETHYLENE GLYCOL MONOMETHYL ETHER
- PAX: 309
- CAO: 310
- Store between 15°C and 25°C