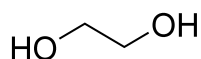


## Technical Data Sheet

# MONOETHYLENE GLYCOL (MEG)

### General



MW: 62.07 gmol<sup>-1</sup>

CAS No.: 107-21-1

EINECS No.: 203-473-3

IUPAC name: Ethane-1,2-diol

Monoethylene glycol (MEG; CAS 107-21-1) is a colorless liquid with low volatility. The product is extremely hygroscopic. MEG is miscible with water, alcohols, aldehydes, ketones and esters. Monoethylene glycol can be used as an intermediate in the production of solvents and resins or as a building block in PET to produce fibers. Furthermore, MEG is commonly used as a raw material for antifreeze fluids.

### Sales Specification

Characteristic	Unit	Specification	Methods of Analysis
Appearance	-	Clear liquid	200
Assay	w%	min 99.4	calculated
Water	w%	max 0.1	208
Acid Value	mgKOH/g	max 0.1	225
Diethylene glycol	w%	max 0.3	665
Color	Hazen	max 15	201

Methods of Analysis are available upon request.

In case of dispute, the listed Method of Analysis will be used as reference methods.

### Physical and Chemical Properties

Property	Value	Property	Value
Form	viscous liquid	pH	9
Colour	colourless	Melting point/freezing point	-13 °C
Odour	mild	Boiling point/boiling range	197,4 °C at 1 013 hPa
Flammability (liquids)	Not classified as a flammability hazard	Flash point	111 °C Method: closed cup
Explosive properties	Not explosive	Ignition temperature	410 °C
Oxidizing properties	The substance or mixture is not classified as oxidizing	Vapour pressure	0,123 hPa at 25 °C
Water solubility	completely miscible	Relative vapour density	2,1
Solubility in other solvents	Soluble in ethanol and acetone	Density	1 113 kg/m <sup>3</sup> at 20 °C
		Relative density	1,11 at 20 °C
		Partition coefficient: n-octanol/water	log Pow: -1,36 at 20 °C
		Viscosity, dynamic	16,1 mPa.s at 25 °C

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