

### MONOETHYLENE GLYCOL (MEG) (GOST 19710-83)

Ethylene glycol is a product of ethylene oxide hydration. It is used for production of synthetic fibers, solvents, antifreezes and hydraulic fluids.

MAIN QUALITY SPECIFICATIONS			
	TEST METHOD	PREMIUM Typical Value	1 <sup>st</sup> GRADE Typical Value
<b>Ethylene Glycol Mass Content, %, min.</b>	§ 4.4. of GOST	99.8	98.5
<b>Diethylene Glycol Mass Content, %, max.</b>	§ 4.4. of GOST	0.05	0.1
<b>Colour Hazen, max.</b>	§ 4.5. of GOST		
▪ in normal condition		5	20
▪ after boiling with hydrochloric acid		20	-
<b>Residue Mass Content after Calcination, %, max.</b>	§ 4.6. of GOST	0.001	0.002
<b>Iron Mass Content, %, max.</b>	§ 4.7. of GOST	0.00001	0.0005
<b>Water Mass Content, %, max.</b>	§ 4.8. of GOST	0.1	0.5
<b>Acids Mass Content, in terms of Acetic Acid, %, max.</b>	§ 4.9. of GOST	0.0006	0.005
<b>Refraction Index at 20 °C</b>	GOST 18995.2	1.431-1.432	1.430-1.432
<b>Light Transmission Ratio, %, min., at Wavelengths, nm:</b>	§ 4.11. of GOST		
- 220		75	-
- 275		95	-
- 50		100	-

### DIETHYLENE GLYCOL (DEG) (GOST 10136-77)

Diethyleneglycol is product of ethylene oxide hydration. It is used as an extraction agent for aromatic hydrocarbon, for drying of natural gas and in other industries.

MAIN QUALITY SPECIFICATIONS			
	TEST METHOD	GRADE A Typical Value	GRADE B Typical Value
<b>Density at 20 °C, g/cm<sup>3</sup></b>	§ 3.2a. of GOST	1.116 – 1.117	
<b>Colour Hazen, max.</b>	§ 3.2b. of GOST	10	20
<b>Organic Admixtures Content, %, max: including Ethylene Glycol, %, max</b>	§ 3.3. of GOST	0.4 0.15	1.8 1.0
<b>Diethylene Glycol Mass Content, %, min.</b>	§ 3.3. of GOST	99.5	98.0
<b>Water Mass Content, %, max.</b>	§ 3.4a. of GOST	0.05	0.2
<b>Acids Mass Content in terms of Acetic Acid, %, max.</b>	§ 3.4. of GOST	0.005	0.01
<b>Saponification Number, mg KOH/g of product, max.</b>	§ 3.5. of GOST	0.1	0.3
<b>Distillation, Temperature Range at 101.3 kPa:</b>	§ 3.6. of GOST		
initial boiling point, °C, min.		244	241
final boiling point, °C, max.		249	250

**Supply Form:** DEG-colorless or yellowish clear, flammable liquid; MEG-flammable transparent liquid

**Packaging:** Product is shipped in railway tank-cars and tank-cars as well as aluminum and steel non-galvanized drums

**Transportation:** Product in drums is transported by all means of covered transport. Bulk product is transported in rail-way tank-cars and tank-cars of aluminum or non-corrosive steel

**Storage:** Storage in sealed containers made of aluminum, non-corrosive or aluminized steel. Drummed product should be stored in sheltered non-heated warehouses. Drums should be stacked vertically maximum three tiers high.