

Methanol for Industrial Use | CH₃OH | Specification
**GOST 2222-95
Technical Parameters**

Indices	Grade A Company Code 2421110130	Grade B Company Code 2421110140
Outward appearance	Colorless transparent liquid without insoluble impurities	
Density under 200C, g/cm ³	0,791-0,792	
Miscibility with water	Miscible with water without any traits of turbidity or opalescence	
Temperature limits:	64,0-65,5	
Boiling point, °C	0,8 1,0	
Limits for distillability of 99% of the product, °C, not more than		
Mass content of water, %, not more than	0,05	0,08
Mass fraction of free acids in term of formic acid, %, not more than	0,0015	
Mass fraction of aldehydes and ketones in term of acetone, %, not more than	0,003	0,008
Mass fraction of volatile iron compounds in term of iron, %, not more than	0,00001	0,0005
Potassium permanganate test, min., not less than	60	30
Mass fraction of ammonia and ammonia compounds in term of ammonia, %, not more than	0,00001	-
Mass fraction of chlorine, %, not more than	0,0001	0,001
Mass fraction of sulphur, %, not more than	0,0001	0,001
Mass fraction of non-volatile residue after vaporization, %, not more than	0,001	0,002
Specific electrical conductivity, S/m, not more than	3*10 ⁻⁵	-
Mass fraction of ethanol, %, not more than	0,01	-
Colority according to platinum-cobalt scale, Hazen units, not more than	5	-

General

Methanol - CH₃OH, methyl alcohol, methyl hydrate. Colorless liquid with odor similar to odor of ethanol. In contact with air with volume concentration of 6,72-36,5% explosion hazardous mixtures can be formed; ignition point is 15,6°C. Methanol is miscible with water at any ratios as well as most of organic solvents, possesses all properties typical of monobasic alcohols.

As a raw material for production natural, coke and other hydrocarbon-based gases can be used. These form mixtures of CO and H₂ with ratio of 1 to 2.

Application

Methanol is used for production in industrial and specialty chemistry as well as for production of thermosetting and thermoplastic resins, artificial fibers and yarns and fertile material.

Safety requirements

Methanol is a highly combustible toxic liquid.

Self-ignition ranges – 6,7 – 34,7 of volume fractions.

Transportation

Methanol is transported in special railway tanks of 60 tons.