

Methanol

Product Specification - Version 1 dated 11/10/2015

Formula: CH₃ - OH **IUPAC Name:** Methanol **CAS Number:** 67-56-1

Description:

Methanol is a colorless alcohol, hygroscopic and completely miscible with water, but much lighter (specific gravity 0.8). It is a good solvent, but very toxic and extremely flammable. This simple single carbon alcohol is a volatile solvent and a light fuel.

Property	Specification	Test Method
Molecular Weight, g/mol	32.04	-
Boiling Point, °C at 1.0 atm	64.5	-
Vapor Pressure, kg/cm ² at 20°C	0-128	-
Freezing Point, °C	-97.5	-
Net Heating Value, million BTU/Ton	1883	-
Vapor Density, air = 1 at 15°C	1.11	-
Purity, wt %	99.85 min	ASTM E-346
Water, wt %	0.1 max	ASTM E-203
Acetone & Aldehydes, wt %	0.003 max	ASTM E-346
Acidity as Acetic Acid, wt. %	0.003 max	ASTM D1613
Ethanol, wt %	0.01 max	ASTM E-346
Appearance & Hydrocarbons, wt %	free of opalescence, suspended matter and sediment	Visual
Carbonizable Substances, color	not darker than Color Standard No. 30 of ASTM D1209 Platinum - Cobalt Scale	ASTM E-346
Color	not darker than Color Standard No. 5 of ASTM D1209 Platinum - Cobalt Scale	ASTM D1209
Odor	Characteristic, non-residual	ASTM D1296
Distillation Range, at 760 mm Hg.	not more than 1°C and include 64.4°C +/- 0.1°C	ASTM D1078
Specific Gravity @ 20°C/20°C	0.7928 max	ASTM D4052
Non-volatile Content, GM/100mL	0.001 max	ASTM D1353
Permanganate Test	no discharge of color in 50 minutes	ASTM D1363
Notes: None.		

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