

METHANOL

CAS NO. 67-56-1

Product Description	Key Features	Application
<ul style="list-style-type: none"> Methanol is a colourless liquid boiled at 64.96 °C and solidifies at -93.9 °C. It forms explosive mixtures with air. It is completely miscible in water. Pure methanol is an important material in chemical synthesis. 	<ul style="list-style-type: none"> Burns with nonluminous flame Clean-burning fuel Explosive mixture with air High octane Miscible in water Odor similar ethyl alcohol 	<ul style="list-style-type: none"> Automotive antifreezes Synthetic dyestuffs Resins Perfumes Synthetic resins General solvent

Properties	Typical Value	Unit	Test Based On
Assay	99.85 Min	wt%	ASTM E-346
Acidity as Acetic acid	0.003 Max	wt %	ASTM 3-346
Autoignition Temperature	455 (851)	°C (°F)	
Boiling Point			
Dry Point	64.5 (148.1)	°C	
Color Pt-Co	Not darker than color Standard No.30	-	ASTM D 1209
Critical Pressure	81	bar	
Critical Temperature	239.6 (512.6)	°C (K)	
Critical Volume	0.118	m ³ /kg.mol	
Empirical Formula	CH ₃ OH		
Evaporation Rate (n-butyl acetate = 1)	2.1	-	
Expansion Coefficient @ 20 °C	0.00149	Per °C	
Expansive Limits in Air			
Lower	6.7	vol%	
Upper	36.0	vol%	
Flash Point			
Closed cup	9.7 (49.46)	°C (°F)	
Cleveland Open Cup	15.85 (60.53)	°C (°F)	
Freezing Point	-97.5 (-143.5)	°C (°F)	
Hansen Solubility Parameters			
Hydrogen bonding	22.30	-	
Nonpolar	14.70	-	
Polar	12.30	-	
Total	40.60	-	
Heat of Combustion	-4677 cal/g	kcal/g.mol	
Heat of Vaporization	262.8 cal/g	cal/g.mol	
Liquid Heat Capacity @ 25 °C	67.9	J/(g.mol) K	
Liquid Viscosity @ 25 °C	0.543	cP (mPa.s)	
Maximum Incremental Reactivity (MIR)	0.71	-	
Molecular Weight	32.04	-	
Nitrocellulose Solubility	Active		
Refractive Index @ 20°C	1.329	-	
Solubility			
In water, @ 20 °C	Complete		
Water in, @ 20 °C	Complete		
Specific Gravity @ 25°C	0.789	-	
Surface Tension @ 25 °C	22	Dynes/cm	
Vapor Density (air = 1)	1	-	
Vapor Pressure			
@ 25 °C	16.9	kPa	
Wt/Vol @ 20 °C	0.79 (6.60)	Kg/L (lb/gal)	

Notes

Typical properties: these are not to be construed as specifications.

¹Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

For additional technical, sales and order assistance please contact our sales representative

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