

METHANOL TECHNICAL DATA SHEET

FOR PRODUCED METHANOL



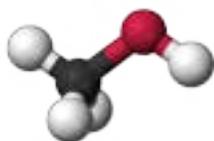
CHEMICAL FORMULA: CH₃OH

CAS No: 67-56-1

SYNONYMS: METHYL ALCOHOL, WOOD ALCOHOL

DESCRIPTION: METHANOL IS A CLEAR, COLORLESS LIQUID THAT IS SOLUABLE IN WATER AND IS BIODEGRADABLE.

APPLICATIONS:



- CHEMICAL FEEDSTOCK - *FORMALDEHYDE, ACETIC ACID, MTBE, DME, BIODIESEL, OLEFINS.*
- FUEL & FUEL ADDITIVE - *VEHICLES, SHIPS, COOKING, HEATING*
- HYDROGEN CARRIER FOR METHANOL FUEL CELLS
- WINDSHIELD WASHER FLUID
- WASTEWATER DENITRIFICATION

TYPICAL PROPERTIES:

Molecular Weight:	32.04 g/mol
Purity:	99.85 %wt min
Water (impurity)	0.100 %wt max
Acetone (impurity)	30mg/kg max
Ethanol (impurity)	50 mg/kg max
Chloride (impurity) as Cl ⁻	0.5 mg/kg max

Specific Gravity (20/20°C)	0.7910 - 0.7930
Freezing Point:	-97.8°C / -144°F
Boiling Point:	64.6°C / 148°F
Flash Point (closed cup, 1 atm):	12°C / 54°F
Explosive limits in air	6% - 36%
Solubility: Methanol in Water/ Water in Methanol	100% / 100%

PRODUCTION SPECIFICATIONS:

Methanol is typically produced to meet the methanol specifications of the International Methanol Producers and Consumers Association (IMPCA), which reviews and updates the specifications approximately every two years. For the current IMPCA methanol specifications, refer to the IMPCA website at <http://www.impca.eu/IMPCA/Technical/IMPCA-Documents>

HAZARDS & PRECAUTIONS:

FLAMMABLE 	Methanol is flammable and burns with a clear blue flame that is smokeless and difficult to see in daylight. Keep away from sources of ignition including heat, sparks, flames, and hot surfaces. Keep containers tightly closed when not in use. Containers should be stored in well-ventilated and cool areas.
HEALTH 	Methanol can be toxic if swallowed, inhaled, or contacts the skin, although skin absorption is a slower process than ingestion or inhalation. Avoid breathing vapors or mist. When handling methanol, wear chemical-resistant gloves and appropriate PPE. Depending on the activity, respiratory protection may be required. If swallowed, immediately seek medical attention.

For detailed PPE and safe handling and storage requirements, refer to the Methanol Institute's Methanol Safe Handling Manual and to the manufacturer's or supplier's Safety Data Sheet for methanol.

The Methanol Institute believes the information herein to be accurate. However, the Methanol Institute assumes no liability whatsoever with respect to the accuracy and completeness of the information, procedures, recommendations and data presented in this Technical Data Sheet and disclaim all liability arising out of the use of such information, procedures, recommendations and data. All users of this Technical Data Sheet must still use their own independent judgment and discretion in ensuring that they handle methanol safely. This Technical Data Sheet is not a substitute for applicable laws and regulations, nor does it alter the obligation of the user to comply fully with federal, state, and local laws.

SINGAPORE (HQ):

10 Anson Road, #32-10
International Plaza,
Singapore 079903
+65 6325 6300

WASHINGTON DC:

225 Reinekers Lane, Suite 205,
Alexandria, VA 22314 USA
+1 703 248 3636

BRUSSELS:

Square de Meeûs 38/40
B-1000 Brussels Belgium
+32 2 401 61 51

BEIJING:

#511, Pacific Sci-Tech Development
Center, Peking University
No. 52 Hai Dian District,
Beijing 100871, China
+86 10 6275 5984