



Methanol — Industrial Grade

Product name: Methanol

Alternative name: Methyl Alcohol

Chemical formula: CH₃OH

CAS number: 67-56-1

EC number: 200-659-6

Product grade: Industrial Grade

Typical purity: Minimum 99.85%

Issue date: 14 July 2026

Version: 1.0

Product Description

Methanol is a clear, colourless, highly volatile industrial alcohol used primarily as a chemical feedstock and solvent. Basekim supplies standard industrial methanol without intentional additives, as well as denatured methanol where required by market or regulatory conditions.

Typical Applications

- Formaldehyde and acetic acid production
- Methanol-to-olefins processes
- Petrochemical manufacturing
- Fuel and fuel-additive production
- Paints, coatings and resin formulations
- Industrial solvent applications
- Oil and gas operations, including hydrate control
- Production of chemical intermediates

These uses reflect the industrial applications identified by Basekim.

Key Benefits

- High purity
- Low moisture content
- Excellent solvent performance
- Completely miscible with water
- High chemical reactivity
- Suitable for bulk industrial processing
- Consistent quality for international supply



Typical Specifications

Property	Test Method	Typical Specification
Appearance	Visual	Clear, colourless liquid
Methanol purity	Gas chromatography	≥99.85 wt.%
Water content	ASTM E1064	≤0.10 wt.%
Ethanol content	Gas chromatography	≤50 mg/kg
Acetone content	Gas chromatography	≤30 mg/kg
Acidity as acetic acid	ASTM D1613	≤30 mg/kg
Non-volatile residue	ASTM D1353	≤10 mg/kg
Permanganate time	ASTM D1363	≥50 minutes
Colour	ASTM D1209	≤5 APHA
Specific gravity at 20/20°C	ASTM D4052	Approximately 0.791–0.793

The Basekim product page states a minimum purity of 99.85%, low moisture content and a clear, colourless appearance. Other values above are representative commercial-grade parameters and must be confirmed by the shipment Certificate of Analysis.

Physical Properties

Property	Typical Value
Molecular weight	32.04 g/mol
Boiling point	Approximately 64.7°C
Freezing point	Approximately -97.6°C
Density at 20°C	Approximately 0.792 g/cm ³
Flash point, closed cup	Approximately 11°C
Auto-ignition temperature	Approximately 464°C
Vapour pressure at 20°C	Approximately 13 kPa
Solubility in water	Completely miscible
Odour	Mild alcoholic odour
Physical state	Volatile liquid

NIST reports an average normal boiling point of approximately 337.8 K, equivalent to about 64.7°C.



Standard and Denatured Grades

Standard Methanol

Pure industrial methanol without intentional additives. It is suitable for petrochemical feedstock, solvent use, fuel-related applications and oil and gas operations.

Denatured Methanol

High-purity methanol containing a denaturing agent, commonly denatonium benzoate, where required to discourage misuse or meet specific regulatory requirements. Basekim notes that the permitted uses of denatured methanol may differ according to the destination market.

Storage

Store in approved, tightly closed containers or tanks in a cool, dry and well-ventilated area.

- Keep away from heat, sparks, flames and ignition sources.
- Protect from strong oxidising agents.
- Use suitable flammable-liquid storage systems.
- Keep containers grounded and bonded during transfer.
- Protect against water and chemical contamination.
- Do not store or use near food, beverages or animal feed.

Methanol is a highly flammable and toxic liquid. Consult the current Safety Data Sheet before handling.

Packaging and Supply

Available supply options include:

- Steel drums
- ISO tank containers
- Bulk shipments

Basekim states that methanol shipments are supplied with standard export documentation such as the SDS, Certificate of Analysis, commercial invoice and packing list.



Transport Information

UN number: UN 1230

Proper shipping name: Methanol

Transport class: 3

Subsidiary hazard: 6.1

Packing group: II

Shipment must comply with applicable ADR, RID, IMDG, ICAO and IATA dangerous-goods requirements.

Shelf Life

Methanol is chemically stable when stored in suitable sealed containers under recommended conditions. Product quality should be verified against the Certificate of Analysis after prolonged storage.

Quality Control

Each shipment should be tested for:

- Methanol purity
- Water content
- Acidity
- Colour
- Specific gravity
- Non-volatile residue
- Organic impurities
- Permanganate time

A batch-specific Certificate of Analysis should accompany each shipment.