

TECHNICAL DATA SHEET

Date of Issue: 2025/02/24

Lithium Methoxide, typ. 10 % solution in Methanol (typ. 2.2 M)

CAS-No.	865-34-9
EC-No.	212-737-7
REACH No.	01-2120138356-56-0000
Molecular formula	CH ₃ OLi
Product number	10001474, 10001475, 10001476, 10001477, 10001478, 10001479

APPLICATION Deprotonation reactions in organic synthesis.

SPECIFICATION

Lithium Methoxide: 9.5 – 10.5 %

METHOD OF ANALYSIS

Determination of assay as total base by acidimetric titration after hydrolysis. Detailed description available on request.

PHYSICAL PROPERTIES

Appearance	liquid
Color	colorless to yellow

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation and its subsidiaries and affiliates. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patent.

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Flash point	17.5 °C 1,013 hPa (Product)
Boiling point/boiling range	65 °C (Methanol)
Density	0.85 g/cm ³ at 20 °C
Water solubility	(Not applicable)
Molecular weight	37.98 g/mol

HANDLING & STORAGE

Handling	Lithium Methoxide should be handled under inert gas atmosphere. Avoid contact with eyes, skin and clothes as well as inhalation. Lithium Methoxide decomposes in contact with humidity. Vapors may form explosive mixtures with air. Vapors are heavier than air and may spread along floors. Flash-back possible over considerable distance. Use only explosion-proof equipment. Take precautionary measures against electrostatic. Protect from frost, heat and sunlight. In case of fire use dry extinguisher on basis of sodium chloride or limestone powder. Never use CO ₂ -extinguishers. Pay also attention to the Safety Data Sheet.
Storage	Lithium Methoxide should be stored in tightly closed containers under exclusion of humidity at gentle temperatures. When stored according to SDS the material is fairly stable. We still recommend to retest the material 6 month after date of analysis if included on CoA. If not included, use the date of manufacturing for the calculation. Keep away from heat, sparks and fire. Pay also attention to the Safety Data Sheet.

TRANSPORT & PACKAGING

UN number 3286

ADR	Class: 3	PG: II	Label: 3 (6.1, 8)
RID	Class: 3	PG: II	Label: 3 (6.1, 8)
IMDG	Class: 3	PG: II	Label: 3 (6.1, 8)
IATA_C	Class: 3	PG: II	Packing instruction (cargo aircraft): 363
IATA_P	Class: 3	PG: II	Packing instruction (passenger aircraft): 352

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Hazard pictograms



Signal Word Danger

H&P Phrases See Safety Data Sheet

Labelling The labelling is according to EU-GHS classification ((EG) 1272/2008) and may vary in other countries. Please refer to the respective Safety Data Sheet for your country.

Packaging

Glass bottles of 1,000 mL. Steel bottles with volumes of 127, 450 and 2500 L. For safety reasons these are filled to a maximum of 90 %. Steel container up to 17 cubic meter.

OTHER INFORMATION

Further Related Safety Data Sheet
Documents

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