TECHNICAL DATA SHEET

Date of Issue: 2025/02/17

Lithium Methoxide, powder

CAS-No.	865-34-9
EC-No.	212-737-7
REACH No.	01-2120138356-56-0000
Molecular formula	CH3OLi
Product number	10001466, 10001467, 10001468, 10004870

APPLICATION

Deprotonation reactions in organic synthesis.

SPECIFICATION

Lithium Methoxide	min. 99,0 %
LiOH + Li2CO3 calculated as LiOH	max. 1,0 %
Color	white
Aggregate	crystalline powder

METHOD OF ANALYSIS

Determination of assay as total base by acidimetric titration after hydrolysis. Determination of LiOH and Li2CO3 as LiOH by Karl Fischer titration. Detailed description available on request.

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.

Technical data sheets may change frequently. You can download the latest version from our website www.albemarle.com.

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PHYSICAL PROPERTIES

Appearance	Crystalline powder
Color	white
Melting point/range	(Not applicable)
Bulk density	ca. 600 kg/m3
Water solubility	(Not applicable)
Solubility in other solvents	141 g/l at 20 °C Medium: Methanol
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. Self-heating; can catch fire. Keep away from sources of heat and ignition. Dust may form explosive mixtures with air. Take precautionary measures against electrostatic. Use explosion-proof equipment. 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.

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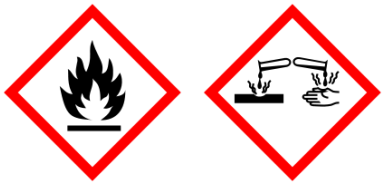
TRANSPORT & PACKAGING

UN number 3206

ADR	Class: 4.2	PG: II	Label: 4.2 (8)
RID	Class: 4.2	PG: II	Label: 4.2 (8)
IMDG	Class: 4.2	PG: II	Label: 4.2 (8)
IATA_C	Class: 4.2	PG: II	Packing instruction (cargo aircraft): 470
IATA_P	Class: 4.2	PG: II	Packing instruction (passenger aircraft): 466

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

Inner packing: Polyethylene bags up to 10 kg net. Outer packing: 110 l open lid steel drums with 50 kg net.

OTHER INFORMATION

Further Related Documents Safety Data Sheet

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