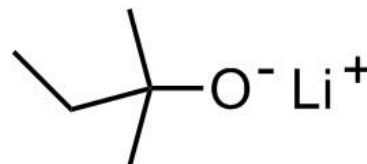


TECHNICAL DATA SHEET

Date of Issue: 2025/02/24

Lithium tert-Amoxide, typ. 40 % solution in Heptane (typ. 3.1 M)



CAS-No.	53535-81-2
EC-No.	485-110-0
REACH No.	01-0000020259-69-0000
Molecular formula	C ₅ H ₁₁ OLi
Product number	10000129, 10001502, 10001503, 10000130, 10000131, 10000132, 10001504, 10001505, 10001506

APPLICATION Deprotonation reactions in organic synthesis.

SPECIFICATION

Lithium tert-Amoxide	39 - 41 %
LiOH + Li ₂ CO ₃ calculated as LiOH	max. 0.5 % *)
Color	colorless to grey yellow
Appearance	clear to turbid
Aggregate	liquid

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.

Please contact us at www.albemarle.com/contact with questions.

METHOD OF ANALYSIS

Determination of total base by potentiometric titration of the hydrolyzed product. Detailed description available on request. Determination of LiOH by Karl Fischer titration.

PHYSICAL PROPERTIES

Appearance	liquid
Color	colorless to yellow clear cloudy
Crystallization temperature	< 10 °C
Flash point	0 °C 1,013 hPa (Heptane)
Boiling point/boiling range	80 - 110 °C at 1,013 hPa Method: ISO 3405 (Heptane)
Density	ca. 0.74 g/cm ³ at 20 °C
Water solubility	(Not applicable)
Molecular weight	94.08 g/mol

HANDLING & STORAGE

Handling Lithium tert-Amoxide should be handled under inert gas atmosphere. Avoid contact with eyes, skin and clothes as well as inhalation. 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 measures against electrostatic discharges. Protect from frost, heat and sunlight. Lithium tert-Amoxide decomposes in contact with humidity. In case of fire use dry extinguishers on basis of sodium chloride or limestone powder. Never use water or CO₂-extinguishers. Pay also attention to the Safety Data Sheet.

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.

Product number: 10000129

Date of Issue: 2025/02/24

Storage

Lithium tert-Amoxide should be stored in tightly closed containers under exclusion of humidity at gentle temperatures. The product starts to form crystalline precipitates on cooling below abt. 10 °C. Recommended storage temperature: min. 15 °C. When stored according to SDS the material is fairly stable. We still recommend to retest the material 9 months 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 2924

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

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 250, 500 and 1,000 mL. Steel bottles with volumes of 7.4, 27, 127, 450 L and ISO tanks. For safety reasons these are filled to a maximum of 90 %. Steel drums 200 L.

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.

Please contact us at www.albemarle.com/contact with questions.

Product number: 10000129

Date of Issue: 2025/02/24

OTHER INFORMATION

Further Related Documents Safety Data Sheet

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.

Please contact us at www.albemarle.com/contact with questions.

