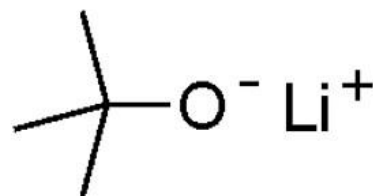


## TECHNICAL DATA SHEET

Date of Issue: 2025/02/24

# Lithium tert-Butoxide, powder

CAS-No.	1907-33-1
EC-No.	217-611-5
REACH No.	01-2120138357-54-0000
Molecular formula	C <sub>4</sub> H <sub>9</sub> OLi
Product number	10000126, 10001472, 10001473



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**APPLICATION** Deprotonation reactions in organic synthesis.

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### SPECIFICATION

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Lithium tert-Butoxide	99,0 - 101,5 %
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LiOH + Li <sub>2</sub> CO <sub>3</sub>	max. 1 %
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calculated as LiOH

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### METHOD OF ANALYSIS

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

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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](http://www.albemarle.com).

Please contact us at [www.albemarle.com/contact](http://www.albemarle.com/contact) with questions.

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## PHYSICAL PROPERTIES

Appearance	powder
Color	white to beige
Melting point/range	ca. 283 °C
Density	0.89 g/cm <sup>3</sup> at 25 °C Method: OECD Test Guideline 109
Bulk density	500 kg/m <sup>3</sup>
Water solubility	(Not applicable)
Solubility in other solvents	20 g/l at 20 °C Medium: tert-butyl alcohol  50 g/l at 20 °C Medium: Toluene  130 g/l at 20 °C Medium: Heptane  230 g/l at 20 °C Medium: Tetrahydrofuran
Molecular weight	80.06 g/mol

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## HANDLING & STORAGE

Handling	Lithium tert-Butoxide should be handled under inert gas atmosphere. Avoid contact with eyes, skin and clothes as well as inhalation. Lithium tert-Butoxid decomposes in contact with humidity. Dust may form explosive mixtures with air. 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 water or CO <sub>2</sub> -extinguishers. Pay also attention to the Safety Data Sheet.
Storage	Lithium tert-Butoxid should be stored in tightly closed containers under exclusion of humidity at gentle temperatures. Keep away from heat, sparks and fire. Pay also attention to the Safety Data Sheet. When stored according to SDS the material is fairly stable. We still recommend to retest the material 6 months after date of analysis if included on CoA. If not included, use the date of manufacturing for the calculation.

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**TRANSPORT & PACKAGING**

UN number 2925

ADR	Class: 4.1	PG: II	Label: 4.1 (8)
RID	Class: 4.1	PG: II	Label: 4.1 (8)
IMDG	Class: 4.1	PG: II	Label: 4.1 (8)
IATA_C	Class: 4.1	PG: II	Packing instruction (cargo aircraft): 448
IATA_P	Class: 4.1	PG: II	Packing instruction (passenger aircraft): 445

Hazard pictograms



Signal Word                      Danger

H&amp;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: 2 x Polyethylene bags up to 100 kg net. Outer packing: 110 or 220 l open lid steel drums with 40 or 100 kg net.

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**OTHER INFORMATION**Further Related                      Safety Data Sheet  
Documents

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