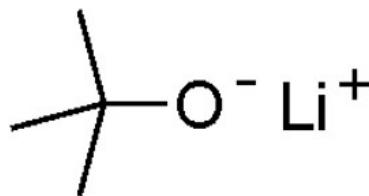


# TECHNICAL DATA SHEET

Date of Issue: 2017/09/06

## Lithium tert-Butoxide, typ. 20 % solution in THF (typ. 2.2 M)



CAS-No.	1907-33-1
EC-No.	217-611-5
REACH No.	01-2120138357-54
Molecular Formula	C <sub>4</sub> H <sub>9</sub> LiO
Product Number	401721

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**APPLICATION** Deprotonation reactions in organic synthesis.

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### FURTHER INGREDIENTS

Tetrahydrofuran

CAS-No.	109-99-9
EC-No.	203-726-8

### SPECIFICATION

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Lithium tert-Butoxide	19 – 21 %
LiOH + Li <sub>2</sub> CO <sub>3</sub>	max. 0.1 % *)

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\*) calculated as LiOH

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### METHOD OF ANALYSIS

Acidimetric 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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### PHYSICAL PROPERTIES

Appearance	liquid
Color	yellowish to brownish

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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.

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Crystallization temperature	< 5 °C
Flash point	-21.2 °C (Tetrahydrofuran)
Boiling point/boiling range	66 °C (Tetrahydrofuran)
Density	0.89 g/cm <sup>3</sup> at 20 °C
Water solubility	(Not applicable) (Vigorous reaction with water to form LiOH and t-butanol.)
Molecular weight	80.06 g/mol

## HANDLING & STORAGE

Handling	<p>Lithium tert-Butoxide should be handled under inert gas atmosphere.</p> <p>Avoid contact with eyes, skin and clothes as well as inhalation.</p> <p>Lithium tert-Butoxide decomposes in contact with humidity.</p> <p>Pay also attention to the Safety Data Sheet.</p>
Storage	<p>Lithium tert-Butoxide should be stored in tightly closed containers under exclusion of humidity at gentle temperatures.</p> <p>Keep away from heat, sparks and fire.</p> <p>Pay also attention to the Safety Data Sheet.</p>

## 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

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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 100, 250, 500 and 1,000 ml. Steel bottles with volumes of 7.4, 27, 127 or 450 l. For safety reasons these are filled to a maximum of 90 %. Steel drums up to 200 l.

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OTHER INFORMATION

Further Related Documents

Safety Data Sheet

Our brochure(s)

Alkoxides, Trifold - Specialties for Deprotonation

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