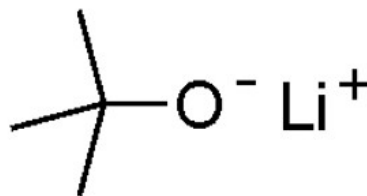


TECHNICAL DATA SHEET

Date of Issue: 2018/04/11

Lithium tert-Butoxide, powder

CAS-No.	1907-33-1
EC-No.	217-611-5
REACH No.	01-2120138357-54
Molecular Formula	C ₄ H ₉ LiO
Product Number	401715



APPLICATION Deprotonation reactions in organic synthesis.

SPECIFICATION

Lithium tert-Butoxide	min. 99 %
LiOH + Li ₂ CO ₃	max. 1 % *)

*) calculated as LiOH

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.

PHYSICAL PROPERTIES

Appearance	powder
Color	white to beige
Melting point/ range	ca. 283 °C
Density	0.897 g/cm ³ (Information taken from reference works and the literature.)
Bulk density	ca. 500 kg/m ³
Water solubility	(Not applicable)

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

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

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.
	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.

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

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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

Inner packing: Polyethylene bags up to 100 kg net.

Outer packing: 110 or 220 l open lid steel drums with 50 or 100 kg net.

OTHER INFORMATION

Further Related Safety Data Sheet
Documents

Our brochure(s) Alkoxides, Trifolder - Specialties for Deprotonation

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