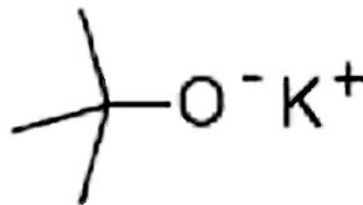


TECHNICAL DATA SHEET

Date of Issue: 2017/09/06

Potassium tert-Butoxide, powder

CAS-No.	865-47-4
EC-No.	212-740-3
REACH No.	01-2119971575-26
Molecular Formula	C_4H_9KO
Product Number	401271



APPLICATION	Deprotonation reactions in organic syntheses.
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SPECIFICATION

Potassium tert-Butoxide	min. 99.0 %
KOH + K ₂ CO ₃	max. 1.0 % *)

*) calculated as KOH

METHOD OF ANALYSIS

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

PHYSICAL PROPERTIES

Appearance	powder
Color	white to light yellow

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.

Melting point/ range	256 - 258 °C
Decomposition temperature	300 °C Method: OECD Test Guideline 113
Sublimation point	220 °C at 1.33 hPa
Flash point	(Not applicable)
Density	1.19 g/cm ³ at 20 °C Method: OECD Test Guideline 109
Bulk density	ca. 500 kg/m ³
Water solubility	(hydrolyzes)
Solubility in other solvents	180 g/L at 20 °C Medium: tert-butyl alcohol 20 g/L at 20 °C Medium: Toluene 250 g/L at 20 °C Medium: Tetrahydrofuran
Molecular weight	112.21 g/mol

HANDLING & STORAGE

Handling	Potassium tert-Butoxide should be handled under inert gas atmosphere. Avoid contact with eyes, skin and clothes as well as inhalation. Potassium tert-Butoxide decomposes in contact with humidity. Pay also attention to the Safety Data Sheet.
Storage	Potassium tert-Butoxide 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 2921

ADR	Class: 8	PG: I	Label: 8 (4.1)
RID	Class: 8	PG: I	Label: 8 (4.1)
IMDG	Class: 8	PG: I	Label: 8 (4.1)
IATA_C	Class: 8	PG: I	Packing instruction (cargo aircraft): 862
IATA_P	Class: 8	PG: I	Packing instruction (passenger aircraft): 858

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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, Trifold - Specialties for Deprotonation

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