

TECHNICAL DATA SHEET

Date of Issue: 2016/08/26

Lithium Carbonate, pharmaceutical grade

CAS-No.	554-13-2
EC-No.	209-062-5
REACH No.	01-2119516034-53
Molecular Formula	Li ₂ CO ₃
Product Number	401104

APPLICATION Pharmaceuticals production of high purity lithium chemicals.

SPECIFICATION

Li ₂ CO ₃	min. 99.1 %
Na	max. 0.01 %
K	max. 0.005 %
Ca	max. 0.02 %
Mg	max. 0.003 %
Fe ₂ O ₃	max. 0.002 %
SO ₄	max. 0.02 %
Cl	max. 0.005 %
H ₂ O (200 °C)	max. 0.1 %
As	max. 0.0002 %
Heavy Metals (as Pb)	max. 0.002 %
Insolubles	max. 0.005 %

PHYSICAL PROPERTIES

Appearance	fine powder to granular
Color	colorless

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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Melting point/ range	722 °C Method: OECD Test Guideline 102
Boiling point/boiling range	ca. 1,310 °C
Density	2.11 g/cm ³ at 20 °C
Bulk density	ca. 430 kg/m ³ (401260 - BG <40µm) ca. 430 kg/m ³ (401303 - TG Industrial Grade) ca. 500 kg/m ³ (401223 - TG Fines) ca. 890 kg/m ³ (401203 - TG Compacted) ca. 940 kg/m ³ (401211 - TG Granules) ca. 950 kg/m ³ (401202 - TG Coarse Crystal)
Water solubility	8.4 g/L at 20 °C Method: OECD Test Guideline 105
Molecular weight	73.89 g/mol
Screen Analysis	
95 % < 0.1 mm	

HANDLING & STORAGE

Handling No special precautions necessary.

TRANSPORT & PACKAGING

ADR

Not regulated as a dangerous good

Hazard pictograms



Signal Word Warning

H&P Phrases See Safety Data Sheet

Labelling The labelling is according to EU-GHS classification ((EG) 1272/2008) and may vary

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in other countries. Please refer to the respective Safety Data Sheet for your country.

Packaging

50 kg poly bags in clamping ring drums. Smaller units possible upon request.

OTHER INFORMATION

Further Related Documents Safety Data Sheet

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