

TECHNICAL DATA SHEET

Date of Issue: 2016/08/24

Cesium Carbonate, purity min. 99.9 % (50 % solution in water)

CAS-No.	534-17-8
EC-No.	208-591-9
REACH No.	01-2120089561-51
Molecular Formula	Cs ₂ CO ₃
Product Number	423511

APPLICATION Cesium carbonate is a versatile base in organic synthesis.

PURITY min. 99.9 %

SPECIFICATION

Li	max. 5 ppm
Na	max. 100 ppm
K	max. 200 ppm
Rb	max. 200ppm
Ca	max. 5 ppm
Mg	max. 2 ppm
Ba	max. 30 ppm
Sr	max. 5 ppm
Al	max. 10 ppm
Fe	max. 3 ppm
Cr	max. 2 ppm
P2O5	max. 15 ppm

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.

Product Number: 423511

Date of Issue: 2016/08/24

SO4	max. 50 ppm
Cl	max. 100 ppm
NO3	max. 25 ppm
SiO2	max. 40 ppm

Values are based on the dry salt. Due to the nature of the production process, small amounts of cesium will be present either as hydroxide or as bicarbonate.

Deliveries are accompanied by a lot specific certificate of analysis. If any of these values is critical to your application, please let us know.

PHYSICAL PROPERTIES

Appearance	liquid
Color	colorless
Flash point	(Not applicable)
Boiling point/boiling range	ca. 110 °C
Density	ca. 1.7 g/cm ³ at 20 °C
Water solubility	(completely miscible)
Molecular weight	325.82 g/mol
Additional Physical Properties	Concentration: 50 - 52 % by weight

HANDLING & STORAGE

Handling	Contact with skin and eyes or ingestion will cause serious caustic burns.
Storage	Cesium carbonate solution should be stored in tightly closed containers.

TRANSPORT & PACKAGING

ADR
Not regulated as a dangerous good

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.

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

Polyethylene cans or Mauser containers.

Alternative packaging on request.

OTHER INFORMATION

Further Related Safety Data Sheet
Documents

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.