

# TECHNICAL DATA SHEET

Date of Issue: 2016/08/24

## Cesium Carbonate, purity min. 99 % (50 % solution in water)

CAS-No.	534-17-8
EC-No.	208-591-9
REACH No.	01-2120089561-51
Molecular Formula	Cs <sub>2</sub> CO <sub>3</sub>
Product Number	423611

---

**APPLICATION** Cesium carbonate is a versatile base in organic synthesis.

---

**PURITY** min. 99 %

---

### SPECIFICATION

Li	max. 5 ppm
Na	max. 100 ppm
K	max. 200 ppm
Rb	max. 1500 ppm
Ca	max. 10 ppm
Ba	max. 50 ppm
Al	max. 50 ppm
P2O5	max. 25 ppm
SO4	max. 100 ppm
Cl	max. 100 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](http://www.albemarle-lithium.com). Please contact us at [www.albemarle-lithium.com/contact](http://www.albemarle-lithium.com/contact) with questions.



Product Number: 423611

Date of Issue: 2016/08/24

---

NO3 max. 50 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 <sup>3</sup> 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](http://www.albemarle-lithium.com). Please contact us at [www.albemarle-lithium.com/contact](http://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](http://www.albemarle-lithium.com). Please contact us at [www.albemarle-lithium.com/contact](http://www.albemarle-lithium.com/contact) with questions.