# TECHNICAL DATA SHEET

Date of Issue: 2016/08/26

# Cesium Carbonate, milled grade, purity min. 99.9 %

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 426013

APPLICATION Cesium carbonate is a versatile base in organic synthesis. The milled grade is e.g.

used in heterogeneous reactions benefiting from a large surface area.

PURITY min. 99.9 %

## **SPECIFICATION**

Li	max. 5 ppm
Na	max. 100 ppm
K	max. 200 ppm
Rb	max. 200 ppm
Ca	max. 5 ppm
Mg	max. 2 ppm
Ва	max. 30 ppm
Sr	max. 5 ppm
Al	max. 10 ppm
Fe	max. 3 ppm
Cr	max. 2 ppm
P2O5	max. 15 ppm
SO4	max. 50 ppm

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CI	max. 100 ppm
NO3	max. 25 ppm
SiO2	max. 40
weight loss	max. 0.5 %

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** solid

Color colorless white

> 400 °C Method: OECD Test Guideline 102 Melting point/ range

Decomposition temperature

610 °C

Density 4.16 g/cm3 at 20 °C Method: OECD Test Guideline 109

Bulk density ca. 1,300 kg/m3

Water solubility 2,615 g/L at 15 °C

Molecular weight 325.82 g/mol

Additional Physical

Particle size distribution:

**Properties** max. 20 µm x50 x90

max. 50 µm

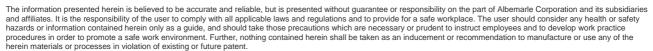
## HANDLING & STORAGE

Handling Handling in moist air should be avoided. Contact with skin and eyes or ingestion will

cause serious caustic burns.

Storage Because of its hygroscopicity cesium carbonate should be stored in tightly closed

containers.





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#### TRANSPORT & PACKAGING

## **ADR**

Not regulated as a dangerous good

# 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 bags with aluminium barrier in drums (fiber drums, clamping ring drums, steel drums, steel drums with polypropylene inner lining). The aluminium barrier prevents diffusion of moisture into the product. Alternative packaging on request. Smaller units are available at surcharge.

## OTHER INFORMATION

Further Related Documents

Safety Data Sheet

