

# TECHNICAL DATA SHEET

Date of Issue: 2016/08/29

## Cesium Hydroxide, purity min. 99.95 % (50 % solution in water)

CAS-No.	21351-79-1
EC-No.	244-344-1
REACH No.	01-2119979562-25
Molecular Formula	CsOH
Product Number	423507

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**APPLICATION** Cesium hydroxide solution is used in industrial catalysis. Cesium acts as a promoter e.g. in the production of polyols.

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**PURITY** min. 99.95 %

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### SPECIFICATION

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Li	max. 1 ppm
Na	max. 100 ppm
K	max. 200 ppm
Rb	max. 10 ppm
Ca	max. 2 ppm
Mg	max. 1 ppm
Ba	max. 15 ppm
Sr	max. 5 ppm
Al	max. 5 ppm
Fe	max. 1 ppm
Cr	max. 1 ppm
P2O5	max. 5 ppm

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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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SO4	max. 25 ppm
Cl	max. 100 ppm
NO3	max. 10 ppm
SiO2	max. 25 ppm
Pb	max. 5 ppm
Cu	max. 0.5 ppm
Zn	max. 1 ppm
Mn	max. 1 ppm
Hg	max. 1 ppm
As	max. 10 ppm
Ni	max. 0.5 ppm

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Values are given on dry salt basis.

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

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## PHYSICAL PROPERTIES

Appearance	liquid
Color	colorless
Boiling point/boiling range	114 °C
Density	ca. 1.74 g/cm <sup>3</sup> at 20 °C
Water solubility	(completely soluble)
Molecular weight	149.91 g/mol
Additional Physical Properties	Concentration: 50 - 52 % by weight

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## HANDLING & STORAGE

Handling	Contact to skin and eyes or ingestion will cause serious caustic burns, as cesium hydroxide is an extremely strong base. Incompatible materials: acids, carbon dioxide (e.g. from air).
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## TRANSPORT & PACKAGING

UN number 2681

ADR	Class: 8	PG: II	Label: 8
RID	Class: 8	PG: II	Label: 8
IMDG	Class: 8	PG: II	Label: 8
IATA_C	Class: 8	PG: II	Packing instruction (cargo aircraft): 855
IATA_P	Class: 8	PG: II	Packing instruction (passenger aircraft): 851

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

IBC containers (e.g. Mauser, Schütz) or PE cans. Alternative packaging available on request.

## OTHER INFORMATION

Further Related                 Safety Data Sheet  
Documents

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