

TECHNICAL DATA SHEET

Date of Issue: 2021/07/22

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

CAS-No.	21351-79-1
EC-No.	244-344-1
REACH No.	01-2119979562-25-0000
Molecular formula	CsOH
Product number	10001838, 10001839, 10001840, 10001841

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 %
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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
SO ₄	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.

NO3 max. 50 ppm

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.

PHYSICAL PROPERTIES

Appearance	liquid
Colour	colourless
Boiling point/boiling range	114 °C
Density	ca. 1.74 g/cm ³ at 20 °C
Water solubility	(completely soluble)
Molecular weight	149.92 g/mol
Additional Physical Properties	Concentration: 50 - 52 % by weight

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
Documents

Safety Data Sheet

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