

TECHNICAL DATA SHEET

Date of Issue: 2021/07/22

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

CAS-No.	21351-79-1
EC-No.	244-344-1
REACH No.	01-2119979562-25-0000
Molecular formula	CsOH
Product number	10000317, 10001830, 10001831, 10001832

APPLICATION

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

PURITY

min. 99.95 %

SPECIFICATION

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

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Sr	max. 5 ppm
Al	max. 5 ppm
Fe	max. 1 ppm
Cr	max. 1 ppm
P2O5	max. 5 ppm
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

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)

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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).

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.

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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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