

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.

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 |
| SO ₄ | max. 100 ppm |

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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 Safety Data Sheet
Documents

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