

TECHNICAL DATA SHEET

Date of Issue: 2021/07/22

Cesium Carbonate, purity min. 99.9 %

| | |
|-------------------|--|
| CAS-No. | 534-17-8 |
| EC-No. | 208-591-9 |
| REACH No. | 01-2120089561-51-0000 |
| Molecular formula | Cs ₂ CO ₃ |
| Product number | 10000334, 10000335, 10000336, 10001877, 10001878, 10001879, 10001880 |

APPLICATION Cesium carbonate is a versatile base in organic synthesis.

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 |
| Ba | max. 30 ppm |
| Sr | max. 5 ppm |

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| | |
|-------------|--------------|
| Al | max. 10 ppm |
| Fe | max. 3 ppm |
| Cr | max. 2 ppm |
| P2O5 | max. 15 ppm |
| SO4 | max. 50 ppm |
| Cl | max. 100 ppm |
| NO3 | max. 25 ppm |
| SiO2 | max. 40 ppm |
| 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 |
| Colour | white colourless |
| Melting point/range | > 400 °C Method: OECD Test Guideline 102 |
| Density | 4.16 g/cm ³ at 20 °C Method: OECD Test Guideline 109 |
| Bulk density | 1,300 kg/m ³ |
| Water solubility | 2,615 g/l at 15 °C |
| Molecular weight | 325.82 g/mol |

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 bottles or 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

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