TECHNICAL DATA SHEET

Date of Issue: 2026/07/03

Cesium Chloride, purity min. 99.999 %

CAS-No.	7647-17-8
EC-No.	231-600-2
REACH No.	01-2119977124-35-0000
Molecular formula	Cl-Cs
Product number	10000327, 10000328, 10000329, 10000498, 10001857

APPLICATION

Cesium chloride finds use in density gradient centrifugation and in crystal growth applications.

PURITY

min. 99.999 %

SPECIFICATION

Li	max. 0.5 ppm
Na	max. 0.3 ppm
K	max. 1 ppm
Rb	max. 1 ppm
Ca	max. 0.5 ppm
Mg	max. 0.1 ppm
Sr	max. 1 ppm
Ba	max. 1 ppm

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Al	max. 0.1 ppm
Fe	max. 0.2 ppm
Cr	max. 0.1 ppm
Mn	max. 1 ppm
Zn	max. 1 ppm
Ni	max. 0.1 ppm
SO4	max. 5 ppm
SiO4	max. 1 ppm
Pb	max. 1 ppm
insolubles	max. 25 ppm

Extinction of 50 % aqueous solution, 1 cm layer at 260 nm (absorption by proteins): max. 0.02 at 280 nm (absorption by nucleic acids): max. 0.02 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	crystalline
Color	white
Melting point/ range	642 °C at 1,013 hPa Method: OECD Test Guideline 102
Boiling point/boiling range	1,297 °C
Density	3.97 g/cm3 at 20 °C Method: OECD Test Guideline 109
Bulk density	ca. 2,000 kg/m3
Water solubility	> 1,000 g/l at 20 °C Method: OECD Test Guideline 105
Molecular weight	168.36 g/mol

HANDLING & STORAGE

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Storage	Cesium chloride is hygroscopic and should therefore be stored in tightly closed containers under exclusion of moisture. The formation of agglomerates is an inherent characteristic of CsCl and may occur during storage despite compliance with the recommended storage conditions. Such agglomeration does not affect the material's conformity to specification.

TRANSPORT & PACKAGING

ADR
Not regulated as a dangerous good

Hazard pictograms

Signal Word	Warning
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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