

TECHNICAL DATA SHEET

Date of Issue: 2021/07/22

Cesium Bromide, purity min. 99.999%

CAS-No. 7787-69-1

EC-No. 232-130-0

Molecular formula CsBr

Product number 10002086

APPLICATION

Cesium bromide is a highest purity product particularly used for scintillation purposes, e.g. in medical imaging.

PURITY

min. 99.999%

SPECIFICATION

Li	max. 0.2 ppm
Na	max. 0.1 ppm
K	max. 0.5 ppm
Rb	max. 0.5 ppm
Ca	max. 0.1 ppm
Mg	max. 0.1 ppm
Sr	max. 0.1 ppm
Ba	max. 0.5 ppm
Al	max. 0.1 ppm
Fe	max. 0.1 ppm

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Cr	max. 0.1 ppm
Mn	max. 0.1 ppm
SO ₄	max. 5 ppm
SiO ₂	max. 2 ppm
Zn	max. 1 ppm
Ni	max. 0.1 ppm
Pb	max. 1 ppm
Cu	max. 0.5 ppm
Co	max. 0.5 ppm
Tl	max. 1 ppm
NO ₃	max. 5 ppm
Cl	max. 10 ppm
F	max. 10 ppm
I total	max. 10 ppm
insolubles	max. 25 ppm
weight loss (500 °C)	max. 0.1 %

If any of these values is critical to your application, please let us know.

PHYSICAL PROPERTIES

Appearance	powder
Colour	white
Melting point/range	636 °C
Boiling point/boiling range	1,300 °C
Density	ca. 4.44 g/cm ³ at 20 °C
Bulk density	2,500 - 3,200 kg/m ³
Water solubility	ca. 1,230 g/l at 25 °C

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Molecular weight 212.81 g/mol

HANDLING & STORAGE

Storage Cesium bromide is hygroscopic and should thus be stored in tightly closed containers under exclusion of moisture.

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 available at surcharge.

OTHER INFORMATION

Further Related Documents Safety Data Sheet

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