

# TECHNICAL DATA SHEET

Date of Issue: 2016/08/24

## Cesium Bromide, purity min. 99.999%

CAS-No. 7787-69-1

EC-No. 232-130-0

Molecular Formula CsBr

Product Number 424026

### 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

Cr max. 0.1 ppm

Mn max. 0.1 ppm

SO<sub>4</sub> max. 5 ppm

SiO<sub>2</sub> max. 2 ppm

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|                      |              |
|----------------------|--------------|
| 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 <sub>3</sub>      | 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 %   |

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

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## PHYSICAL PROPERTIES

|                             |                                     |
|-----------------------------|-------------------------------------|
| Appearance                  | powder                              |
| Color                       | white                               |
| Melting point/ range        | 636 °C                              |
| Boiling point/boiling range | 1,300 °C                            |
| Density                     | ca. 4.44 g/cm <sup>3</sup> at 20 °C |
| Bulk density                | 2,500 - 3,200 kg/m <sup>3</sup>     |
| Water solubility            | ca. 1,230 g/L at 25 °C              |
| Molecular weight            | 212.81 g/mol                        |

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## HANDLING & STORAGE

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

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## 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.

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## OTHER INFORMATION

### Further Related Documents

Safety Data Sheet

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