TECHNICAL DATA SHEET

Date of Issue: 2021/07/22

Cesium Iodide, purity min. 99.999 %, superdry

CAS-No.	7789-17-5
EC-No.	232-145-2
REACH No.	01-2119977123-37-0000
Molecular formula	Cs-I
Product number	10000331

APPLICATION

Cesium iodide 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. 0.2 ppm
Ba	max. 0.5 ppm

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation and its subsidiaries and affiliates. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patent.

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Al	max. 0.1 ppm
Fe	max. 0.1 ppm
Cr	max. 0.1 ppm
Mn	max. 0.1 ppm
SO4	max. 5 ppm
SiO2	max. 0.5 ppm
Zn	max. 0.2 ppm
Ni	max. 0.5 ppm
NO3	max. 5 ppm
Cl	max. 5 ppm
Br	max. 5 ppm
IO3	max. 5 ppm
Tl	max. 0.5 ppm
insolubles	max. 25 ppm
weight loss (500 °C)	max. 0.1 %

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	colourless to white
Melting point/range	628 °C at 1,013.25 hPa Method: OECD Test Guideline 102
Boiling point/boiling range	1,280 °C
Density	4.51 g/cm3 at 20 °C Method: OECD Test Guideline 109
Water solubility	669.7 g/l at 20 °C Method: OECD Test Guideline 105
Molecular weight	259.81 g/mol

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HANDLING & STORAGE

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

TRANSPORT & PACKAGING

UN number 3077

ADR	Class: 9	PG: III	Label: 9
RID	Class: 9	PG: III	Label: 9
IMDG	Class: 9	PG: III	Label: 9
IATA_C	Class: 9	PG: III	Packing instruction (cargo aircraft): 956
IATA_P	Class: 9	PG: III	Packing instruction (passenger aircraft): 956

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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