Cesium Nitrate for pyrotechnics, purity min. 99.9 %

CAS-No.	7789-18-6
EC-No.	232-146-8
REACH No.	01-2119979571-26
Molecular Formula	CsNO₃
Product Number	425054
APPLICATION	This cesium nitrate grade provides a free flowing fine powder for pyrotechnical applications.

PURITY

min. 99.9 %

SPECIFICATION

Li	max. 1 ppm	
Na	max. 20 ppm	
К	max. 50 ppm	
Rb	max. 150 ppm	
Са	max. 2 ppm	
Mg	max. 0.5 ppm	
Sr	max. 2 ppm	
Ва	max. 20 ppm	
AI	max. 1 ppm	
Fe	max. 1 ppm	
Cr	max. 1 ppm	
Mn	max. 1 ppm	
SO4	max. 50 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.

Technical data sheets may change frequently. You can download the latest version from our website www.albemarle-lithium.com. Please contact us at www.albemarle-lithium.com/contact with questions.



CI	max. 50 ppm	
P2O5	max. 1 ppm	
insolubles *)	max. 0.1 - 1 %	

* basically highly dispersed silica (HDS)

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	fine crystalline powder		
Color	white		
Melting point/ range	401 °C at 1,013 hPa Method: OECD Test Guideline 102		
Density	3.64 g/cm3 at 20 °C Method: OECD Test Guideline 109		
Water solubility	90 g/L at 0 °C		
	239.5 g/L at 20 °C Method: OECD Test Guideline 105		
Molecular weight	194.91 g/mol		
Additional Physical Properties	Particle size x50: 45 - 75 μm		

HANDLING & STORAGE

Handling

Like all nitrates, cesium nitrate is an oxidizer and should not be brought into contact with flammable substances and oxidizable powders (risk of fire hazards). Avoid contact with strong acids and high temperatures (generation of nitric oxide fumes).

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 norinoment. 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.

Technical data sheets may change frequently. You can download the latest version from our website www.albemarle-lithium.com/contact with questions.



TRANSPORT & PACKAGING

UN number 1451

ADR	Class: 5.1	PG: III	Label: 5.1
RID	Class: 5.1	PG: III	Label: 5.1
IMDG	Class: 5.1	PG: III	Label: 5.1
IATA_C	Class: 5.1	PG: III	Packing instruction (cargo aircraft): 563
IATA_P	Class: 5.1	PG: III	Packing instruction (passenger aircraft): 559

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 available at surcharge.

OTHER INFORMATION

Further Related Safety Data Sheet Documents

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 norinoment. 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.

Technical data sheets may change frequently. You can download the latest version from our website www.albemarle-lithium.com/contact with questions.

