Date of Issue: 2016/08/26

Cesium Nitrate, purity min. 99.9 %

CAS-No.	7789-18-6
EC-No.	232-146-8
REACH No.	01-2119979571-26
Molecular Formula	CsNO ₃
Product Number	425051
APPLICATION	Cesium nitrate is used as promoter in heterogeneous catalysts (e.g. methylmethacrylic acid production) and in pyrotechnics.

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	
Al	max. 1 ppm	
Fe	max. 1 ppm	
Cr	max. 1 ppm	
Mn	max. 1 ppm	
SO4	max. 50 ppm	

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Cl	max. 100 ppm
P2O5	max. 1 ppm
SiO2	max. 30 ppm
insolubles	max. 100 ppm

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

fine crystalline powder		
white		
401 °C at 1,013 hPa Method: OECD Test Guideline 102		
3.64 g/cm3 at 20 °C Method: OECD Test Guideline 109		
90 g/L at 0 °C		
239.5 g/L at 20 °C Method: OECD Test Guideline 105		
194.91 g/mol		

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).

Storage 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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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

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