



Cesium Nitrate for pyrotechnics

Product number :	425054
CAS-No. :	[7789-18-6]
Appearance :	colourless crystalline powder, free-flowing
Formula :	CsNO ₃
Formula weight :	194.91
Cesium content :	68.19 % (theoretical)
Specific gravity :	3.685 g/cm ³
Bulk density :	2.0 kg/l
Melting point :	414°C
Solubility :	9 g in 100 g H ₂ O at 0°C / 197 g in 100 g H ₂ O at 100°C
Particle size x₅₀:	45-75 µm

Chemical analysis

Li	max.	1 ppm
Na	max.	20 ppm
K	max.	50 ppm
Rb	max.	150 ppm
Ca	max.	2 ppm
Mg	max.	0.5 ppm
Sr	max.	2 ppm
Ba	max.	20 ppm
Al	max.	1 ppm
Fe	max.	1 ppm
Cr	max.	1 ppm
Mn	max.	1 ppm
SO ₄	max.	50 ppm
Cl	max.	50 ppm
insolubles*	max.	0.1-1 %
P ₂ O ₅	max.	1 ppm

* 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.

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Applications	This cesium nitrate grade provides a free flowing fine powder for pyrotechnical applications.
Safety and 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).
Packaging	Polyethylene bottles or bags with aluminium barrier in drums (fibre drums, clamping ring drums, steel drums, steel drums with polypropylene inner lining). The aluminium barrier prevents diffusion of moisture into the product. Alternative packing on request. Smaller units available at surcharge.
Transport classification	Please refer to the safety datasheet of this product.
Cesium product range	acetate aluminium fluoride bicarbonate bromide carbonate chloride fluoride hydrogen carbonate hydroxide, aqueous solution or monohydrate iodide metal nitrate sulfate <i>available in various grades, other products on request</i>