



# Cesium Iodide 99.999 doped with Thallium Iodide

<b>Formula</b>	CsI doped with TlI
<b>Purity</b>	min. 99.999% (metal base, excluding dopant)
<b>Product number</b>	424044, 424043
<b>CAS-No.</b>	CsI [7789-17-5] TlI [7790-30-9]
<b>Appearance</b>	yellowish substance
<b>Formula weight</b>	259.81
<b>Density</b>	4.51 g/cm <sup>3</sup>
<b>Solubility</b>	84.8 g in 100 g H <sub>2</sub> O at 25°C
<b>Melting point</b>	621°C

## Chemical analysis

Li	max.	0.2 ppm	NO <sub>3</sub>	max.	5 ppm
K	max.	0.5 ppm	Cl	max.	5 ppm
Rb	max.	0.5 ppm	Br	max.	5 ppm
Ca	max.	0.1 ppm	IO <sub>3</sub>	max.	5 ppm
Mg	max.	0.1 ppm	insolubles	max.	25 ppm
Sr	max.	0.2 ppm	(before doping)		
Ba	max.	0.5 ppm	weight loss	max.	0.1 %
Al	max.	0.1 ppm	(500°C)		
Fe	max.	0.1 ppm	TlI	max.	1 %
Cr	max.	0.1 ppm			
Mn	max.	0.1 ppm			
SO <sub>4</sub>	max.	5 ppm			
SiO <sub>2</sub>	max.	0.5 ppm			
Zn	max.	0.2 ppm			
Ni	max.	0.5 ppm			

Various other sodium iodide doped products available.  
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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<b>Applications</b>	Cesium iodide is a highest purity product particularly used for scintillation purposes, e.g. in medical imaging
<b>Safety and handling</b>	Cesium iodide is hygroscopic and should thus be stored in tightly closed containers under exclusion of moisture.
<b>Packaging</b>	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.
<b>Transport classification</b>	Please refer to the safety datasheet of this product.
<b>Cesium product range</b>	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>