



Thallium Iodide granules

Product number :	428002
CAS-No. :	[7790-30-9]
Appearance :	yellowish granules
Formula :	TII
Formula weight :	331.274
Thallium content :	61.69 % (theoretical)
Particle size :	0.3 – 3.0 mm
Melting point :	440 °C
Boiling point :	823 °C
Solubility :	0.0006 g in 100 g H ₂ O at 20°C

Chemical analysis

Al	max.	2 ppm
As	max.	2 ppm
Ba	max.	2 ppm
Bi	max.	2 ppm
Cd	max.	2 ppm
Cr	max.	2 ppm
Cu	max.	2 ppm
Fe	max.	2 ppm
Hg	max.	2 ppm
K	max.	10 ppm
Mg	max.	2 ppm
Mn	max.	2 ppm
Ni	max.	2 ppm
NO ₃	max.	10 ppm
Pb	max.	2 ppm
Sb	max.	2 ppm
Si	max.	5 ppm
Sn	max.	2 ppm
SO ₄	max.	10 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.

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Applications	Thallium iodide is primarily used as a doping agent for alkali halides in scintillation applications.
Safety and handling	Thallium iodide is very toxic. Store in tightly closed containers away from food, strong acids and oxidizing agents. The safety precautions typical for the use of toxic inorganic powders must be taken. Contact to skin or eyes may cause severe burns and symptoms of poisoning. Due to its toxicity inhalation and ingestion must strictly be avoided. Seek medical advice in every case of contact, ingestion or inhalation, do not induce vomiting.
Packaging	PE bags with aluminium lining or PE bottles. 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>