



Cesium Carbonate

99.9

Formula	Cs ₂ CO ₃
Purity	min. 99.9% (metal base)
Product number	425011
CAS-No.	[534-17-8]
Appearance	colourless, crystalline and hygroscopic substance
Formula weight	325.82
Density	4.072 g/cm ³ at 20°C
Solubility	2,615 g/L at 15°C

Chemical analysis

Li	max.	5 ppm
Na	max.	100 ppm
K	max.	200 ppm
Rb	max.	200 ppm
Ca	max.	5 ppm
Mg	max.	2 ppm
Ba	max.	30 ppm
Sr	max.	5 ppm
Al	max.	10 ppm
Fe	max.	3 ppm
Cr	max.	2 ppm
P ₂ O ₅	max.	15 ppm
SO ₄	max.	50 ppm
Cl	max.	100 ppm
NO ₃	max.	25 ppm
weight loss	max.	0.5 %
SiO ₂	max.	40 ppm

Due to the nature of the production process, small amounts of cesium will be present either as hydroxide or as bicarbonate.

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	Cesium carbonate is a versatile base in organic synthesis.
Safety and handling	Handling in moist air should be avoided. Contact with skin and eyes or ingestion will cause serious caustic burns. Because of its hygroscopicity cesium carbonate should be stored in tightly closed containers.
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 are 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>