



Cesium Carbonate milled grade 99.9

Formula	Cs ₂ CO ₃
Purity	min. 99.9% (metal base)
Product number	426013
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
Particle size distribution	x ₅₀ max. 20 µm x ₉₀ max. 50 µm

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. The milled grade is e.g. used in heterogeneous reactions benefiting from a large surface area.
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 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>