



Cesium Carbonate

50% solution in water

technical

Product number :	423511
CAS-No. :	[534-17-8]
Appearance :	50 - 52 % aqueous solution, may contain a slight haze
Formula :	Cs_2CO_3
Formula weight :	325.82
Cesium content :	40.79 % (solution, theoretical)
Density of solution:	approx. 1.7 kg/l
Solubility :	261.5 g in 100 g H_2O at 20°C (dry salt basis)

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_2O_5	max.	15 ppm
SO_4	max.	50 ppm
Cl	max.	100 ppm
NO_3	max.	25 ppm
SiO_2	max.	40 ppm

Values are based on the dry salt. 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	Contact to skin and eyes or ingestion will cause serious caustic burns. Cesium carbonate solution should be stored in tightly closed containers.
Packaging	Polyethylene cans or Mauser containers. Alternative packing on request.
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>