Cesium Fluoride highest purity

Product number :	424021
CAS-No. :	[13400-13-0]
Appearance :	colourless, crystalline and hygroscopic powder
Formula :	CsF
Formula weight :	151.90
Cesium content :	87.49 % (theoretical)
Specific gravity :	4.115 g/cm^3
Bulk density :	2.4 kg/l
Melting point :	682 °C
Solubility :	367 g in 100 g H_2O at 18°C

Chemical analysis

Li	max.	1	ppm
Na	max.	10	ppm
K	max.	10	ppm
Rb	max.	10	ppm
Ca	max.	1	ppm
Mg	max.	1	ppm
Sr	max.	2	ppm
Ba	max.	5	ppm
Al	max.	2	ppm
P_2O_5	max.	1	ppm
SO_4	max.	50	ppm
CO_3	max.	100	ppm
Cl	max.	50	ppm
H_2O (Karl Fischer)	max.	0.03	%
free acid as HF	max.	0.1	%

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 fluoride is a fluorination agent for halide exchange reactions. It is a versatile base in organic synthesis and can be used in polymerisation reactions, in brazing fluxes and in crystal growth applications.

Safety and handling

Because of its hygroscopicity cesium fluoride should be stored in tightly closed containers.
Handling in moist air should be avoided. Safe handling requires the safety precautions typical for inorganic fluorides. Thus, eyes or skin should not be exposed to cesium fluoride, otherwise severe irritation may result. Ingestion must be avoided because of the toxicity of fluoride.

Packaging

Glass bottles or PE 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

available in various grades, other products on request

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