



# Cesium Fluoride

## 99.99

<b>Formula</b>	CsF
<b>Purity</b>	min. 99.99% (metal base)
<b>Product number</b>	424021
<b>CAS-No.</b>	[13400-13-0]
<b>Appearance</b>	colourless, crystalline and hygroscopic substance
<b>Formula weight</b>	151.90
<b>Density</b>	4.64 g/cm <sup>3</sup>
<b>Solubility</b>	573 g in 100 g H <sub>2</sub> O at 25°C
<b>Melting point</b>	703°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
Fe	max.	10 ppm
Cr	max.	3 ppm
Mn	max.	1 ppm
P <sub>2</sub> O <sub>5</sub>	max.	1 ppm
SO <sub>4</sub>	max.	50 ppm
CO <sub>3</sub>	max.	100 ppm
Cl	max.	50 ppm
H <sub>2</sub> O (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*