

# TECHNICAL DATA SHEET

Date of Issue: 2016/08/24

## Cesium Fluoride, purity min. 99.9 %, superdry

CAS-No. 13400-13-0

EC-No. 236-487-3

Molecular Formula CsF

Product Number 425024

### APPLICATION

Cesium fluoride is a fluorination agent for halide exchange reactions. It is a versatile base in organic synthesis and can be used in e.g. in polymerization reactions or in brazing fluxes.

### PURITY

min. 99.9 %

### SPECIFICATION

Li	max. 5 ppm
Na	max. 100 ppm
K	max. 300 ppm
Rb	max. 100 ppm
Ca	max. 5 ppm
Mg	max. 5 ppm
Sr	max. 5 ppm
Ba	max. 5 ppm
Al	max. 5 ppm
Fe	max. 10 ppm
Cr	max. 3 ppm
P2O5	max. 5 ppm
SO4	max. 100 ppm
CO3	max. 100 ppm

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Cl	max. 100 ppm
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H <sub>2</sub> O (Karl Fischer)	max. 0.03 %
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free acid as HF	max. 0.1 %
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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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## PHYSICAL PROPERTIES

Appearance	crystalline powder
Color	white
Melting point/ range	703 °C at 1,013 hPa Method: OECD Test Guideline 102
Boiling point/boiling range	1,251 °C
Density	ca. 4.64 g/cm <sup>3</sup> at 20 °C
Bulk density	2,000 - 3,200 kg/m <sup>3</sup>
Water solubility	5,730 g/L at 25 °C
Molecular weight	151.90 g/mol

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## HANDLING & STORAGE

Handling	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.
Storage	Because of its hygroscopicity cesium fluoride should be stored in tightly closed containers.

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## TRANSPORT & PACKAGING

UN number 3288

ADR	Class: 6.1	PG: II	Label: 6.1
RID	Class: 6.1	PG: II	Label: 6.1
IMDG	Class: 6.1	PG: II	Label: 6.1
IATA_C	Class: 6.1	PG: II	Packing instruction (cargo aircraft): 676
IATA_P	Class: 6.1	PG: II	Packing instruction (passenger aircraft): 669

Hazard pictograms



Signal Word                      Danger

H&P Phrases                    See Safety Data Sheet

Labelling                        The labelling is according to EU-GHS classification ((EG) 1272/2008) and may vary in other countries. Please refer to the respective Safety Data Sheet for your country.

Packaging

Glass bottles or PE bags with aluminium barrier in drums (fiber drums, clamping ring drums, steel drums, steel drums with polypropylene inner lining). The aluminium barrier prevents diffusion of moisture into the product. Alternative packaging on request. Smaller units are available at surcharge.

## OTHER INFORMATION

Further Related                Safety Data Sheet  
Documents

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