TECHNICAL DATA SHEET

Date of Issue: 2021/07/22

Cesium Fluoride, purity min. 99.9 %

CAS-No.	13400-13-0
EC-No.	236-487-3
REACH No.	01-2120774388-39-0000
Molecular formula	Cs-F
Product number	10000338, 10000339, 10001882

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

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Al	max. 5 ppm
Fe	max. 10 ppm
Cr	max. 3 ppm
P2O5	max. 5 ppm
SO4	max. 100 ppm
CO3	max. 100 ppm
Cl	max. 100 ppm
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.

PHYSICAL PROPERTIES

Appearance	Crystalline powder
Colour	white
Melting point/range	703 °C at 1,013 hPa Method: OECD Test Guideline 102
Flash point	(Not applicable)
Boiling point/boiling range	1,251 °C
Density	4.59 g/cm3 at 20 °C Method: OECD Test Guideline 109
Bulk density	2,000 - 3,200 kg/m3
Water solubility	> 1,000 g/l at 20 °C Method: OECD Test Guideline 105
Molecular weight	151.90 g/mol

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.

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

TRANSPORT & PACKAGING

ADR
Not regulated as a dangerous good

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 Documents	Safety Data Sheet

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