



Cesium Fluoride technical

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|---------------------------|--|
| Product number : | 425021 |
| 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 ₂ O at 18°C |

Chemical analysis

| | | |
|-----------------|------|---------|
| Li | max. | 5 ppm |
| Na | max. | 100 ppm |
| K | max. | 400 ppm |
| Rb | max. | 200 ppm |
| Ca | max. | 50 ppm |
| Mg | max. | 50 ppm |
| Al | max. | 20 ppm |
| SO ₄ | max. | 300 ppm |
| Cl | max. | 200 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.

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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 e.g. in polymerisation reactions or in brazing fluxes.

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