TECHNICAL DATA SHEET

Date of Issue: 2024/11/13

Lithium Fluoride, technical grade

CAS-No.	7789-24-4
EC-No.	232-152-0
REACH No.	01-2120751214-63-0001
Molecular formula	F-Li
Product number	401281

APPLICATION

Fluxes for welding and soldering techniques; salt bath for heat-treatment by low temperature and for dip brazing; fluxing agent for the glass, ceramics and enamel industries; additive in aluminum-electrolysis melts; raw material for optical lenses and prisms.

SPECIFICATION

LiF	min. 98.0 %
LOD (180 °C)	max. 0.5%
Fe2O3	max. 0.15 %
Sulfur	max. 0.05 %
CO2 as Li2CO3	max. 1.0 %
Heavy Metals as Pb	max. 0.01 %

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation and its subsidiaries and affiliates. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patent.

Technical data sheets may change frequently. You can download the latest version from our website

www.albemarle-lithium.com. Please contact us at www.albemarle-lithium.com/contact with questions.

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PHYSICAL PROPERTIES

Appearance	crystalline
Color	colorless
Melting point/range	848 °C at 1,013 hPa (Information taken from reference works and the literature.)
Flash point	(Not applicable)
Boiling point/boiling range	1,681 °C at 1,013 hPa (Information taken from reference works and the literature.)
Density	2.64 g/cm3 at 20 °C (Information taken from reference works and the literature.)
Bulk density	400 kg/m3
Water solubility	1.3 g/l at 25 °C (Information taken from reference works and the literature.)
Molecular weight	25.94 g/mol

HANDLING & STORAGE

Handling	No special precautions necessary but inhalation as well as contact with skin have to be avoided. Pay attention to official safety regulations (see also: “Transport regulations“ and “GHS Hazard Pictograms“).

TRANSPORT & PACKAGING

ADR
Not regulated as a dangerous good

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Hazard pictograms

Signal Word	Warning
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

100 lbs polyethylene bags in clamping ring drums

OTHER INFORMATION

Further Related Documents	Safety Data Sheet

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