

TECHNICAL DATA SHEET

Date of Issue: 2017/11/24

Lithium Chloride, technical grade, granules

CAS-No.	7447-41-8
EC-No.	231-212-3
REACH No.	01-2119560574-35
Molecular Formula	CLi
Product Number	401112

APPLICATION

Fluxes for welding and soldering techniques; salt bath for heat-treatment by low temperature and for dip brazing; raw material for other lithium compounds; tracer for chemical products (denaturation of wine etc.); absorption and disinfection reagent (lithium chloride solution) for absorbers.

SPECIFICATION

	Specification	Method of Analysis
LiCl	min. 99.2 % *)	argentom. titrating apparatus
Na	max. 0.35 %	FES/AAS
H ₂ O (400 °C)	max. 0.5 %	Gravimetry

*) Lithium Chloride is also available as a 40 % aqueous solution

PHYSICAL PROPERTIES

Appearance	crystalline powder
Color	colorless
Melting point/ range	609 °C at 1,013 hPa
Initial boiling point and boiling range	1,382 °C
Density	2.1 g/cm ³ at 20 °C
Bulk density	ca. 1,000 kg/m ³
Water solubility	569 g/L at 20 °C Method: OECD Test Guideline 105

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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.



Molecular weight 42.39 g/mol

Grain Size 90 % between 0.1 and 1 mm

Additional Physical Properties Specific gravity: 2.068 g/ccm Solution enthalpy: + 8,370 cal (15 °C)

HANDLING & STORAGE

Storage Lithium chloride is hygroscopic and must therefore be stored under exclusion of humidity (e.g. in tightly closed drums or other containers).

TRANSPORT & PACKAGING

ADR

Not regulated as a dangerous good

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

50 kg polyethylene bags in clamping ring drums and 600 kg big bags

OTHER INFORMATION

Further Related Documents Safety Data Sheet

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