

# TECHNICAL DATA SHEET

Date of Issue: 2017/11/24

## Lithium Chloride, technical grade, powder

CAS-No.	7447-41-8
EC-No.	231-212-3
REACH No.	01-2119560574-35
Molecular Formula	CLi
Product Number	401105

### 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 <sub>2</sub> 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 <sup>3</sup> at 20 °C
Bulk density	ca. 1,000 kg/m <sup>3</sup>
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](http://www.albemarle-lithium.com). Please contact us at [www.albemarle-lithium.com/contact](http://www.albemarle-lithium.com/contact) with questions.

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Molecular weight 42.39 g/mol

Grain Size 90 % between 0.05 and 0.5 mm

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

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## 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).

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## TRANSPORT & PACKAGING

ADR

Not regulated as a dangerous good

Hazard pictograms



Signal Word Warning

H&amp;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.

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## OTHER INFORMATION

Further Related Documents Safety Data Sheet

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