

# TECHNICAL DATA SHEET

Date of Issue: 2017/12/08

## Lithium Chloride, low sodium

CAS-No.	7447-41-8
EC-No.	231-212-3
REACH No.	01-2119560574-35
Molecular Formula	CLi
Product Number	401178

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**APPLICATION** battery application, chemical synthesis, catalyst for toners, photographic developer solutions etc.

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### SPECIFICATION

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LiCl	min. 99.4 %
H <sub>2</sub> O (400 °C )	max. 0.60 %
Na	max. 0.0050 %
K	max. 0.0015 %
Ca	max. 0.0100 %
Ba	max. 0.0100 %
Fe	max. 0.0015 %
heavy metal as Pb	max. 0.0015 %
SO <sub>4</sub>	max. 0.0100 %
insolubles HCl	max. 0.005 %

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### METHOD OF ANALYSIS

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LiCl	argentom. titrating apparatus
H <sub>2</sub> O (400°C)	gravimetrically
Na	FES / AAS

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K	FES / AAS
Ca	ICP-Method
Ba	ICP-Method
Fe	ICP-Method
heavy metal as Pb	ICP-Method
SO4	IC
insolubles HCl	gravimetrically
total alkalinity as Li <sub>2</sub> CO <sub>3</sub>	gravimetrically

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### 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
Molecular weight	42.39 g/mol

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### HANDLING & STORAGE

Storage	Lithium Chloride is very 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

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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

50 and 100 kg polyethylene bags in clamping ring drums and 600 kg big bags. Special packing on request, e.g. 10 kg aluthene bags.

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OTHER INFORMATION

Further Related Documents	Safety Data Sheet
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