Lithium Chloride, technical grade, powder

CAS-No. 7447-41-8
EC-No. 231-212-3
REACH No. 01-2119560574-35
Molecular Formula ClLi
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 desinfection reagent (lithium chloride solution) for absorbers.

SPECIFICATION

<table>
<thead>
<tr>
<th>Specification</th>
<th>Method of Analysis</th>
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<tbody>
<tr>
<td>LiCl</td>
<td>min. 99.2 % *)</td>
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<tr>
<td>Na</td>
<td>max. 0.35 %</td>
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<tr>
<td>H2O (400 °C)</td>
<td>max. 0.5 %</td>
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*) 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/cm³ at 20 °C |
Bulk density | ca. 1,000 kg/m³ |
Water solubility | 569 g/L at 20 °C Method: OECD Test Guideline 105 |
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)

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.

OTHER INFORMATION
Further Related Documents  Safety Data Sheet