

# Lithium Chloride (LiCl 98)

Anhydrous

## PRODUCT

Chemical Formula LiCl

CAS No. 7447-41-8

Molecular Weight: 42.40

Density @ 25 Deg.C: 2.07 g/cm<sup>3</sup>

Melting Point: 609 Deg.C

## APPLICATIONS

LiCl 98 is mainly used for the production of lithium metal by electrolysis of a LiCl/KCl melt at 450°C (842°F). Also used as a brazing flux for aluminum in automobile parts or as a desiccant for drying air streams as well as a flame colorant to produce dark red flames. In more specialized applications, LiCl98 finds some use in organic synthesis, e.g., as an additive in the Stille Reaction or a precipitate RNA from cellular extracts in biochemical applications.

## PRODUCT SPECIFICATIONS

Parameter	Range
Lithium Chloride	98.50% wt. (min.)
Appearance	Hygroscopic white powder
Moisture	<2.0% wt. (when packed)
Sulphates as SO <sub>4</sub>	0.01 wt. % (max.)
Fe	0.005 wt. % (max.)
Heavy Metals	0.01 wt. % (max.)
Na	0.03 wt. % (max.)
Bulk Density	1050-1100 Kg. /m <sup>3</sup>
pH	7.5-8.0
Solubility	Complies
Alkalinity (as LiOH)	0.06-0.08 N
Acidity HCl	0.05N-0.09N (0.06N typical)

ORDERS and  
TECHNICAL SUPPORT

Lithium Salts of America  
is Division of ASG Chemie

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e: info@lithiumsalts.com

### PACKAGING

25/50kg. poly lined HDPE Bags/Drums

### TOXICITY/SAFETY DATA HANDLING / STORAGE / DISPOSAL

Lithium chloride (corrosive) is harmful in use and contact with the skin, eyes and clothing should be avoided. The use of safety glasses, rubber gloves and adequate clothing to protect the skin is recommended when handling. For more information on toxicity, safety, handling, storage and disposal is contained in the Safety Data Sheet (SDS) for this product.

### SHELF LIFE AND STORAGE

Lithium Chloride is hygroscopic in nature. Store in a dry place and keep bag and container tightly closed.

## LIMITED WARRANTY INFORMATION.

### PLEASE READ CAREFULLY.

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For more information or answers to questions about the use in specific applications, contact your Technical Sales Representative or call Toll Free 1.833.LITHUSA (1-833-548-4872).

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