## 🛟 Livent

## Lithium Chloride, Industrial Grade

## CAS No. 7447-41-8

QS-PDS-1056 Revision: 03

Date of Last Revision: September 15, 2022

Formula:	LiCl	
Appearance:	Free-flowing white crystals.*	
	* Occasional dark particles may be visible and scattered in the product. The particles have no detectable effect on product purity and will not be cause for rejection.	
Application:	Molten salt chemistry and metallurgy, brazing fluxes, catalyst for organic oxidation reactions, electrolyte in dry cells used in low temperatures, and stabilizer in textile fiber spinning solutions. Solubilizer for polyamides and cellulose when used with amide solvents, chlorinating agent for steroid agents. Desiccant for drying applications, tracer in wastewater.	
Product Specifications:	LiCl, wt. % H <sub>2</sub> O, wt. % ** Alkalinity as Li <sub>2</sub> CO <sub>3</sub> , wt. % KCl, wt. % NaCl, wt. % CaCl <sub>2</sub> , wt. % SO <sub>4</sub> , wppm Fe <sub>2</sub> O <sub>3</sub> , wppm Acid Insolubles, wppm ** Value (as weight percent loss 45 minutes.	98.5 min 0.6 max 0.03 max 0.5 max 0.6 max 0.02 max 100 max 10 max 100 max 100 max 100 max
Physical Properties:	Molecular Weight Melting Point Boiling Point Specific Heat @ 25°C Standard Heat of Formation Heat of Solution @ 18°C Heat of Fusion Density @ 25°C	42.39 608°C 1382°C 0.288 cal/g/°C -97.70 kcal/mole -8.49 kcal/mole 4.7 kcal/mole 2.068 g/cm <sup>3</sup>
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**Solubility:** Water solubility is 45.4 wt. % @ 25°C. Moderate solubility in polar organic solvents.



Toxicity / Safety Data / Handling / Storage / Disposal:	Information on toxicity, safety, handling, storage and disposal is contained in the Safety Data Sheet (SDS) for this product.	
Shipping Containers:	Nine (9 • 200 Kg Four (4	of product in a polyethylene-lined fiber drum. ) fiber drums per pallet. of product in a polyethylene-lined fiber drum. ) fiber drums per pallet. g of product, in a lined super sack on a pallet.
Shipping Limitations:	Shipments of lithium chloride require no dangerous goods shipping labels.	
	Post, Parcel, Air, Water, Rail, Truck	Acceptable within each carrier's weight limits and packaging requirements.

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