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## Typical Product Specifications & Properties

# Lithium Chloride

CAS Number: : 7447-41-8

Specifications	Limits
Density	2.068
Very Soluble	in water, alcohols, ether, pyridine, nitrobenzene
K	typical 0.02%
Solution enthalpy	+ 8370 cal at 15C
Solubility	111.9 g/100g water at 80C
Assay	typical 99.5%
Ca	typical 0.007%
Fe + Al	typical 0.001%
H2O	typical < 0.5% at 400C
Insolubles	typical 0.003%
Solubility	83.2 g/100g water at 20C
SO4	typical 0.005%



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Specifications	Limits
Li <sub>2</sub> CO <sub>3</sub>	typical 0.015%
Solubility	89.8 g/100g water at 40C
Solubility	98.4 g/100g water at 60C
Solubility	128.3 g/100g water at 100C
Na	typical 0.10%
Ba	typical 0.02%
Appearance	white, crystalline granulate
Grain size	90% between 0.1 and 1 mm
Bulk Density	about 1 g/ccm
Specific gravity	2.068 g/cm <sup>3</sup>
Molecular weight	42.40
Boiling Point	1382C



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Specifications	Limits
Melting Point	614C
Vapor Pressure	1 mm hg (547 c)
Refractive Index	1.381

Specifications	Limits
Chemical Structure	



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