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TECHNICAL INFORMATION

Catalog Number: 150134, 152538, 194010
Lithium Chloride

Structure:


Molecular Formula: LiCl
Molecular Weight: 42.39
CAS # : 7447-41-8
Physical Description: White powder
Solubility: Soluble in water (1 g/ 1.3 ml cold water or 0.8 ml hot water), alcohol, acetone, amyl alcohol, pyridine; the aqueous solution is neutral to slightly alkaline.[1]
Description: Used as an electrolyte for low temperature dry battery cells and as an oxidation catalyst. It is a solubilizer for polyamides and cellulose when used with amide solvents, and is a chlorinating agent for steroid substrates.
Lithium chloride has also been utilized in:

– Large scale plasmid DNA isolation without ultracentrifugation.[5]
– Protein extraction and protein crystallization.[2,3,4,7,8]
– Crystallization of other biological structures, including vitamin B12-RNA aptamer and the L-A virus particle.[10,13]
– Inhibits the expression and secretion of insulin-like growth factor-binding protein-1 in H4-II-E cells.[9]
– Used in the synthesis of beta-substituted alpha-amino acid derivatives.[6,11]

Availability:

Catalog Number	Description	Size
150134	Lithium chloride anhydrous	100 g 500 g 1 kg 10 kg
194010	Lithium chloride, molecular biology reagent	100 g 500 g
152538	Lithium chloride, ACS Reagent Grade	100 g 500 g

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