



LITHIUM CARBONATE, PHARMACEUTICAL GRADE

CAS No. 554-13-2

QS-PDS-013 Revision: 04

THIS PRODUCT IS PREPARED SPECIFICALLY FOR PHARMACEUTICAL APPLICATIONS FOR HUMAN CONSUMPTION AND IS MANUFACTURED ACCORDING TO FDA "CURRENT GOOD MANUFACTURING PRACTICE" (CGMP). IT IS AN FDA-APPROVED DRUG DISPENSED ONLY BY PHYSICIANS' PRESCRIPTION AND AVAILABLE ONLY TO REGISTERED, AUTHORIZED PHARMACEUTICAL MANUFACTURERS AND REPROCESSORS.

Product Names	Lithium carbonate pharm grade, Pharm Carb, Lithium carbonate USP grade, USP carbonate
Formula	Li_2CO_3
Appearance	White powder
Application	Pharmaceutical grade approved by FDA for treatment of bipolar disorder and manic depressive psychosis.

A comprehensive text book by Dr. F. N. Johnson, titled *Lithium Research and Therapy* [Academic Press, NY, 1975], gives details regarding medical applications for lithium and includes recommended procedures for the treatment of a patient suffering from lithium poisoning.

Product Specifications

Guaranteed (Wt%)

Li_2CO_3	99.0	min
Cl	0.005	max
SO_4	0.02	max
Fe_2O_3	0.002	max
CaO	0.02	max
Na_2O	0.01	max
K_2O	0.005	max
Insolubles (in dilute HCl)	0.02	max
Loss in drying	0.8	max
Heavy metals (as Pb)	20 ppm	max
Al	10 ppm	max

European Regulations:

As_2O_3	2 ppm	max
Mg	0.005	max

Other Regulations:

Residual Solvents	Meets Requirements
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Product meets US and European Pharmacopeia Specifications

Solubility Lithium carbonate solubility varies between 8-12 gm/L depending on temperature of the water.

Toxicity/Safety Harmful if swallowed. Causes serious eye irritation

Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously w/ water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Wash hands thoroughly after handling.

COMPLETE INFORMATION ON TOXICITY AND SAFETY IS CONTAINED IN THE SAFETY DATA SHEET (SDS) AVAILABLE FOR THIS PRODUCT.

Handling/Storage/Disposal Avoid contact with eyes, skin or clothing. Use with adequate ventilation. Wear safety glasses or goggles and rubber gloves. Wash thoroughly after handling. Keep away from strong acids. Keep container closed.

Shipping Containers Lithium Carbonate, pharmaceutical grade is packaged and shipped in polyethylene-lined, tamper-proof fiber drums containing 100 kgs (220 lbs) of product.

Shipping Limitations Shipments of lithium carbonate require no hazardous shipping labels. Shipments by post, parcel, air, water, rail, or truck are acceptable within each carrier's weight limits and packaging requirements.