



**Lithium Carbonate, Pharmaceutical Grade**

**CAS No. 554-13-2**

**QS-PDS-013 Revision: 05**

**Date of Last Revision: September 15, 2022**

*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.*

**Formula:**  $\text{Li}_2\text{CO}_3$

**Appearance:** White, granular 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.

<b>Product Specifications:</b>	$\text{Li}_2\text{CO}_3$ , wt. %	99 min	100.5 max
	Loss in Drying, wt. %	0.8	max
	Cl, wt. %	0.005	max
	$\text{SO}_4$ , wt. %	0.02	max
	$\text{Fe}_2\text{O}_3$ , wt. %	0.002	max
	CaO, wt. %	0.02	max
	$\text{Na}_2\text{O}$ , wt. %	0.01	max
	$\text{K}_2\text{O}$ , wt. %	0.005	max
	Al, wppm	10	max

**European Regulations:**

Mg, wt. %	0.005	max
$\text{As}_2\text{O}_3$ , wppm	2	max

**Other Regulations**

Residual Solvents	Meets Requirements
Elemental Impurities	Meets Requirements

Product meets USP and European Pharmacopeia Specifications

**Other Data:** Loose Bulk Density 0.4 g/cc



Tapped Bulk Density                      0.7 g/cc\*

\* Particle size and density are made to customer requirements.

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

**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:**                      • 100 Kg of product in a polyethylene-lined fiber drum. Four (4) fiber drums per pallet. 400 Kg per pallet.

**Shipping Limitations:** Shipments of lithium carbonate require no dangerous goods shipping labels.

Post,                      Acceptable within each carrier's weight  
Parcel, Air,            limits and packaging requirements.  
Water, Rail,  
Truck