



Lithium Carbonate, Technical Grade

CAS No. 554-13-2

QS-PDS-1051 Revision: 05

Date of Last Revision: June 12, 2024

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

**Appearance:** An odorless white, free-flowing powder

**Application:** A free-flowing, odorless white powder with guaranteed 99.3 wt.% purity and a relatively fine particle size. Technical Grade product is a higher purity grade for use as a precursor in making critical battery materials, is useful in the manufacture of glass, frits, other ceramics and a variety of specialized applications.

<b>Product Specifications:</b>	$\text{Li}_2\text{CO}_3$ , wt. %	99.3	min
	Loss @ 500° C	0.6	max
	$\text{Na}_2\text{O}$ , wt. %	0.2	max
	$\text{CaO}$ , wt. %	0.05	max
	$\text{SO}_4$ , wt. %	0.1	max
	$\text{Fe}_2\text{O}_3$ , wt. %	0.003	max
	Cl, wt. %	0.01	max
	Acid Insolubles, wt. %	0.02	max
	$\text{H}_2\text{O}^*$ , wt. %	0.6	max
	$\text{K}_2\text{O}$	0.005	max

\* Value (as weight percent loss) determined by drying at 500°C for 30 minutes.

<b>Other Data:</b>	Loose Bulk Density	0.50 g/cc
	Tapped Bulk Density	0.75 g/cc*

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

<b>Physical Properties:</b>	Molecular Weight	73.89
	Melting Point	720°C

**Water Solubility:** Lithium carbonate solubility varies between 8-12 gm/L depending on temperature of the water. Water solubility is 1.3 wt. % @ 20°C

**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.
- 20 Kg of product in a paper bag. Forty-four (44) bags per pallet. 880 Kg per pallet.
- 25 Kg of product in a paper bag. Forty (40) bags per pallet. 1000 Kg per pallet.
- 50 lbs of product in a paper bag. Forty-four (44) bags per pallet. 2200 lbs per pallet.
- 450 Kg of product in a supersack, stacked two (2) high. 900 Kg per pallet.
- 900 Kg of product in a supersack, single stacked. 900 Kg per pallet.

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

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