



Lithium Carbonate, Micronized Technical Grade

CAS No. 554-13-2

QS-PDS-1061 Revision: 04

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 99.5 wt. % purity and a 5  $\mu\text{m}$  D50 particle size. Micronized Battery Grade product is a superior purity grade for use as a precursor in making critical battery materials.

<b>Product Specifications:</b>	$\text{Li}_2\text{CO}_3$ , wt. %	99.3	min
	$\text{Na}_2\text{O}$ , wt. %	0.2	max
	$\text{CaO}$ , wt. %	0.05	max
	$\text{SO}_4$ , wt. %	0.1	max
	$\text{Fe}_2\text{O}_3$ , wppm	0.003	max
	Cl, wt. %	0.01	max
	Acid Insolubles, wt. %	0.02	max
	Malvern D100, $\mu\text{m}$	40	max
	Malvern D90, $\mu\text{m}$	13	max
	Malvern D50, $\mu\text{m}$	4-6	max
	$\text{H}_2\text{O}^*$ , wt. %	0.6	max

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

<b>Physical Properties:</b>	Molecular Weight	73.89
	Melting Point	Decomposes @ 1310°C (2390°F)

**Water Solubility:** 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.
  - 20 Kg of product in a paper bag. Forty (40) bags per pallet. 800 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

\*Micronized battery grade lithium carbonate is not manufactured nor intended for drug use.