



Lithium Carbonate, ACS Grade

CAS No. 554-13-2

QS-PDS-1050 Revision: 05

Date of Last Revision: June 12, 2024

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

**Appearance:** White powder

**Application:** Additive in specialty glasses and low-expansion ceramics, analytical agent.

<b>Product Specifications:</b>	$\text{Li}_2\text{CO}_3$ , wt. %	99.0	min
	Acid Insolubles, wt. %	0.01	max
	Cl, wt. %	0.005	max
	$\text{NO}_3$ , wt. %	0.0005	max
	$\text{SO}_4$ , wt. %	0.2	max
	Heavy Metals as Pb, wt. %	0.002	max
	Fe, wt. %	0.002	max
	Ca, wt. %	0.01	max
	Na, wt. %	0.1	max
	K, wt. %	0.01	max

<b>Murgesh (SDS) - Physical Properties:</b>	Molecular Weight	73.89
	Melting Point	720°C
	Specific Heat @ 25°C	0.315 cal/g/°C
	Standard Heat of Formation	-290.64 kcal/mole
	Heat of Fusion	10.7 kcal/mole
	Density @ 20°C	2.094 g/cm <sup>3</sup>

**Helen – Water Solubility:** 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, Air, Water, Rail, Truck	Acceptable within each carrier's weight limits and packaging requirements.
---	---