

QS-PDS-1050 Revision: 03

**Application** Additive in specialty glasses and low-expansion ceramics, analytical agent.**Grade** Meets or exceeds ACS Reagent Grade Specifications**Appearance** White powder**Product Specifications****Guaranteed**

Li <sub>2</sub> CO <sub>3</sub> , wt%	99.0	min
Cl, wt%	0.005	max
SO <sub>4</sub> , wt%	0.2	max
Fe, wt%	0.002	max
Ca, wt%	0.01	max
NO <sub>3</sub> , wt%	0.0005	max
Na, wt%	0.1	max
K, wt%	0.01	max
Acid Insolubles, wt%	0.01	max
Heavy metals (as Pb), wt%	0.002	max

**Physical Properties**

Molecular weight	73.89
Density @ 20°C	2.094 g/cm <sup>3</sup>
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
Water solubility @ 20°C	1.3 wt%

**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.**



## LITHIUM CARBONATE ACS GRADE

CAS No. 554-13-2

- 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. Dispose of waste according to local and Federal laws and regulations.
- Shipping Containers** 110 pounds (50 kg) or 220 pounds (100 kg) of product in 38 gallon (143.8 L) or 55 gallon (193 L) polyethylene-lined fiber drum, respectively.
- 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.