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.

Product Specifications

<table>
<thead>
<tr>
<th>Spec</th>
<th>Guaranteed</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \text{Li}_2\text{CO}_3 ), wt%</td>
<td>99.3 min</td>
</tr>
<tr>
<td>H(_2)O*, wt%</td>
<td>0.6 max</td>
</tr>
<tr>
<td>Cl, wt%</td>
<td>0.01 max</td>
</tr>
<tr>
<td>SO(_4), wt%</td>
<td>0.1 max</td>
</tr>
<tr>
<td>Fe(_2)O(_3), wt%</td>
<td>0.003 max</td>
</tr>
<tr>
<td>CaO, wt%</td>
<td>0.05 max</td>
</tr>
<tr>
<td>Na(_2)O, wt%</td>
<td>0.2 max</td>
</tr>
<tr>
<td>Acid Insolubles, wt%</td>
<td>0.02 max</td>
</tr>
</tbody>
</table>

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

Physical Properties

Molecular weight 73.89
Melting point 720°C
Water solubility @ 20°C 1.3 wt%

Toxicity/Safety Data

White granular solid or powder, odorless. Eye irritant; no significant hazard in industrial/commercial applications.

Additional information on toxicity and safety is contained in the Material Safety Data Sheet (MSDS).
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
- 100 kg in a 38 gal (143.8L) fiber drum
- 20 kg bag on 880 kg pallet
- 50 lb bag – 2200 lb pallet
- 450 kg supersack
- 900 kg supersack

Shipping Limitations
Shipments of lithium carbonate are not classed as hazardous for transport. Shipments by post, parcel, air, water, rail, or road are acceptable within each carrier’s weight limits and packaging requirements.

For shipments within Europe labeling for supply requirements are:
- Xn  Harmful
- Xi  Irritant

R&S phrases see Material Safety Data Sheet

*Technical grade lithium carbonate is not manufactured nor intended for drug use.

Responsible Care initiative dictates that all shipments of lithium chemicals must be transported in DOT-approved vehicle in a responsible manner (ie., no flat bed trucks).