



Mon-Droguiste.Com
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FICHE TECHNIQUE

CARBOBONATE DE LITHIUM

Product Lithium Carbonate, technical grade, min. 99.0 % Li_2CO_3
Product-No. 401203
EINECS-No. 209-062-5 CAS-No. 554-13-2

Appearance white, finely-granulated powder

Formula Li_2CO_3

Molecular weight 73.89

Specific weight 2.11 g/cm³

Bulk density approx. 0.8 kg/l

Melting point 732 °C

Decomposition 600 °C

Solubility in water	Temp.°C	g Li_2CO_3 /100 g
	0	1.54
	20	1.33
	40	1.17
	60	1.01
	80	0.85
	100	0.72

Typical screen analysis	mm	mesh	typical	guaranteed
	> 0.840	+20	0.3 %	max. 0.8 %
	0.420–0.840	-20/+40	47 %	–
	0.250–0.420	-40/+60	21 %	–
	0.149–0.250	-60/+100	12 %	–
	0.105–0.149	-100/+140	2 %	–
	0.074–0.105	-140/+200	0.7 %	–
	< 0.074	-200	17 %	max. 25 %

Smaller particle size (eg. < 100 or < 40 μm) and granules also available.



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Chemical analysis

	<u>typical</u>	<u>guaranteed</u>
Li ₂ CO ₃ *	99.4 %	min. 99.0 %
Cl	0.01 %	max. 0.015 %
K	0.0003 %	max. 0.001 %
Na	0.06 %	max. 0.08 %
Mg	0.004 %	max. 0.01 %
SO ₄	0.04 %	max. 0.05 %
Fe ₂ O ₃	0.001 %	max. 0.003 %
Ca	0.01 %	max. 0.016 %
Loss at 550 °C	0.6 %	max. 0.75 %
H ₂ O (110 °C)	0.14 %	–

*] Determination by titration with potentiometric endpoint indication

**Method of analysis/
titroprocess**

Li ₂ CO ₃	acidimetrically with H ₂ SO ₄
Cl	argentom. titrating apparatus
K	FES/AAS
Na	FES/AAS
Mg	ICP-Method
SO ₄	IC
Fe ₂ O ₃	ICP-Method
Ca	FES/AAS

Application

Raw material for the glass, ceramics and enamel industries; basis material for the manufacture of other lithium compounds; catalyst for esterification; additive and flux for welding rods; additive in aluminium electrolysis melts; additive for quick-setting cement

Handling and storage

No special precautions necessary

Transport regulations

None
 No regulations according to RID, ADR, IMDG and IATA-DGR

Marking

X_n Harmful
 R+S-phrases see Material Safety Data Sheet

Packing

25 kg-bags on pallets of 1.000 kg, 100 kg reinforced cardboard drums with polyethylene lining or 1000 kg big bags.

Time of delivery

In general prompt after receipt of order