

LITHIUM CITRATE TETRAHYDRATE

CAS No. 6080-58-6

QS-PDS-1044 Revision: 00

Application Curing agent in concrete and numerous other applications.

Appearance White, crystalline powder

Product Specifications

Guaranteed

Li ₃ C ₆ H ₅ O ₇ ·4H ₂ O*, wt%	99.5	min
H ₂ O**	24	max

* Anhydrous Basis

** Value (as weight percent loss) determined by drying at 150°C for 4 hours.

Other Data Bulk density 0.96 g/cm³ (60 lb/ft³)

Physical Properties	Molecular weight	281.98
	Melting point	Loses H ₂ O above 100°C; anhydrous salt decomposes without melting
	Water solubility of anhy. salt @ 25°C	31.6 wt %
	Density of saturated sol'n. @ 25°C	1.216 g/cm ³

Solubility in ethanol-water mixture @ 25°C

Weight Percent Alcohol in Water	Density Saturated Solution	Grams C ₃ H ₄ OH (COOLi) ₃ · 4H ₂ O per 100 grams Solvent
0	1.216	74.50
20	1.083	32.10
40	0.976	9.65
60	0.897	2.25
80	0.838	0.30
100	0.788	0.02

Air Treatment Construction Energy Fine Chemicals Glass & Ceramics Greases & Lubricants Polymers Pool Water Treatment

MARKETS SERVED	NORTH AMERICA AND HEADQUARTERS FMC Lithium Seven LakePointe Plaza 2801 Yorkmont Road, Suite 300 Charlotte, NC 28208 P: +1.704.426.5300 F: +1.704.426.5370	EUROPE FMC Chemicals Commercial Road Bromborough Merseyside CH62 3NL, England P: +44.151.482.7356 F: +44.151.482.7361	JAPAN FMC Lithium 9F, Aoyama Building 1-2-3, Kita-Aoyama Minato-ku, Tokyo 107-0061, Japan T: +81.3.3402.3716 F: +81.3.3402.3700	CHINA FMC Lithium 15F Far East International Plaza No. 317 Xianxia Road Shanghai 200051 P. R. China T: +86.21.6235.1919 F: +86.21.6235.1917	INDIA FMC India Private Limited Embassy Star 8, Palace Road High Grounds Bangalore 560052, India T: +91.80.2238.4311 F: +91.80.2238.5255	TAIWAN FMC Lithium 9F-1, 263 Tun Hwa S. Rd. Sec. 1 Taipei, Taiwan T: +866.2.2705.4400 F: +866.2.2702.7460
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Toxicity/Safety Small, white crystals, odorless. May be irritating to the eyes, skin and mucous membranes.
Additional information on toxicity and safety is contained in the Material Safety Data Sheet (MSDS) available for this product.

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 (50kg) of product Lithium in 38 gallon (143.9 L) polyethylene-lined fiber drum.

Shipping Limitations Shipments of lithium citrate tetrahydrate require no hazardous shipping labels. Shipments by post, parcel, air, water, rail, or truck are acceptable within each carrier's weight limits.

For shipments within Europe labeling for supply requirements are:

Xn Harmful
R&S phrases see Material Safety Data Sheet

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