

## Product Information

### Citric acid trilithium salt tetrahydrate, Purity $\geq 98\%$

**Cat. No.:** X24-09-YM1380

**Size:** 100 mg; 250 mg; 500 mg; 1000 mg

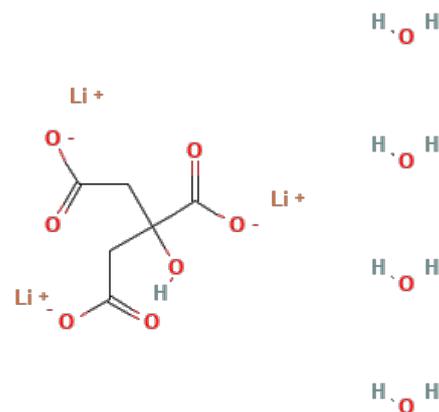
**MDL:** MFCD00150030

**CAS Number:** 6080-58-6

**Compound CID:** 2724118

**Synonym:** 6080-58-6; Lithium citrate tribasic tetrahydrate; Trilithium citrate tetrahydrate; Trilithium; 2-hydroxypropane-1,2,3-tricarboxylate; tetrahydrate

**This product is for research use only and is not intended for diagnostic use.**



#### Product Information

<b>Description</b>	Citric acid trilithium salt tetrahydrate, insoluble in DMSO and ethanol and soluble in water, is a pharmaceutical and construction material. The molecular weight of the compound is 281.98, and its molecular formula is $C_6H_5Li_3O_7 \cdot 4H_2O$ .
<b>Molecular Weight</b>	281.98
<b>Molecular Formula</b>	$C_6H_5Li_3O_7 \cdot 4H_2O$
<b>IUPAC Name</b>	Trilithium;2-hydroxypropane-1,2,3-tricarboxylate;tetrahydrate
<b>InChI</b>	InChI=1S/C6H8O7.3Li.4H2O/c7-3(8)1-6(13,5(11)12)2-4(9)10;;;;;;;;;/h13H,1-2H2,(H,7,8)(H,9,10)(H,11,12);;4*1H2/q;3*+1;;;;/p-3
<b>InChI Key</b>	HXGWMJCZLNWEBC-UHFFFAOYSA-K
<b>Canonical SMILES</b>	[Li+].[Li+].[Li+].C(C(=O)[O-])C(CC(=O)[O-])(C(=O)[O-])O.O.O.O.O
<b>Form</b>	Lyophilized powder
<b>Purity</b>	$\geq 98\%$
<b>Impurities</b>	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
<b>Solubility</b>	<i>In vitro</i> : DMSO: insoluble; Water: 48 mg/mL (170.22 mM); Ethanol: insoluble
<b>Identity</b>	Confirmed by NMR/HPLC/MS.
<b>Stability</b>	In its lyophilized form, the chemical remains stable for 36 months.
<b>Quality Level</b>	Research grade
<b>Applications</b>	Citric acid trilithium salt tetrahydrate plays a key role in modulating various enzymatic activities, particularly in studies focused on metabolic enzymes.
<b>Storage</b>	Store at $-20^\circ\text{C}$ , and keep desiccated.

