



>>Entry Name: Lithium oxalate

Synonym(s): Dilithium ethanedioate, 9Cl. Oxalic acid, dilithium salt, 8Cl. Ethanedioic acid, dilithium salt

CAS Registry Number: 553-91-3

Li(OOCCOO)Li

Molecular Formula: C₂Li₂O₄

Molecular Weight: 101.902

Accurate Mass: 102.011666

Percentage Composition: C 23.57%; Li 13.62%; O 62.80%

Source/Synthesis: Prepd. by neutralisation of LiOH with oxalic acid in aq. soln.

Physical Description: Colourless monoclinic cryst. Dec. on heating

Solubility: Mod. sol. H₂O (8g per 100 cm³ at 20°); insol. EtOH, Et₂O

Other Data: ΔH_f° -1376.6 kJ mol⁻¹

Sigma: O0130

References:

Gmelin Handbook Inorg. Chem., Syst. No. 20, 1960, 510, (rev, bibl)

Beagly, B., *Acta Cryst.*, 1964, **17**, 783, (cryst struct)

Pederson, B.F., *Acta Chem. Scand.*, 1967, **21**, 801, (ir)

Kazin, I.V., *Zh. Fiz. Khim.*, 1984, **58**, 37, (thermodynamics)