



>>Entry Name: Lithium manganese(IV) oxide (Li₂MnO₃), 9CI

CAS Registry Number: 12163-00-7

Li₂MnO₃

Molecular Formula: Li₂MnO₃

Molecular Weight: 116.818

Accurate Mass: 116.954798

Percentage Composition: Li 11.88%; Mn 47.03%; O 41.09%

Source/Synthesis: Synth. from Li₂CO₃ and MnO₂ in oxygen at 900-1100°

Physical Description: Red-brown powder

Solubility: Insol. H₂O, but slowly hydrol.

Other Data: $\mu_{\text{eff}} = 3.77\mu_{\text{B}}$

Aldrich: 44272-0

>>Variant: α -form

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>>Variant: β -form

Molecular Formula: Li₂MnO₃

Molecular Weight: 116.818

Accurate Mass: 116.954798

Percentage Composition: Li 11.88%; Mn 47.03%; O 41.09%

References:

Schmier, A. *et al.*, *Naturwissenschaften*, 1965, **52**, 392, (*synth, props*)

Jansen, M. *et al.*, *Z. Anorg. Allg. Chem.*, 1973, **397**, 279, (*struct, magnetism*)

Gmelin Handbook Inorg. Chem., Syst. No. 56, 1975, **C2**, 96, (*rev, bibl*)