



>>Entry Name: Lithium dichromate(VI) ($\text{Li}_2\text{Cr}_2\text{O}_7$)

Synonym(s): Lithium dichromate

CAS Registry Number: 13843-81-7

$\text{Li}_2\text{Cr}_2\text{O}_7$

Molecular Formula: $\text{Cr}_2\text{Li}_2\text{O}_7$

Molecular Weight: 229.87

Accurate Mass: 229.877429

Percentage Composition: Cr 45.24%; Li 6.04%; O 48.72%

>>Derivative: Dihydrate

CAS Registry Number: 10022-48-7

Molecular Formula: $\text{Cr}_2\text{H}_4\text{Li}_2\text{O}_9$

Molecular Weight: 265.9

Accurate Mass: 265.898559

Percentage Composition: Cr 39.11%; H 1.52%; Li 5.22%; O 54.15%

Source/Synthesis: Synth. by electrolysis of $\text{Li}_2\text{CO}_3 + \text{CrO}_3$ in H_2O

Physical Description: Deliquescent orange-red plates

Melting Point: Mp 187 dec.°

References:

Hartford, W.H. *et al.*, *J.A.C.S.*, 1948, **70**, 647-648, (*prep, props*)

Mathur, M.S. *et al.*, *J. Mol. Struct.*, 1970, **5**, 412-415, (*ir, Raman*)

Simonov, M.A., *Dokl. Akad. Nauk SSSR*, 1978, **240**, 85-87; *CA*, **89**, 51771x, (*cryst struct*)