

Octanoic acid, lithium salt

Other names:	lithium caprylate lithium octanoate
Inchi:	InChI=1S/C8H16O2.Li/c1-2-3-4-5-6-7-8(9)10;/h2-7H2,1H3,(H,9,10);/q;+1/p-1
InchiKey:	BTAUEIDLAAYHSL-UHFFFAOYSA-M
Formula:	C8H15LiO2
SMILES:	CCCCCCCC(=O)[O-].[Li+]
Mol. weight [g/mol]:	150.14

Physical Properties

Property code	Value	Unit	Source
tf	537.45	K	Lithium C1-C12 n-Alkanoates: Thermal behavior from -30C to 600C

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
rhos	1080.00	kg/m3	293.00	Thermal and odd even behaviour in a homologous series of lithium n-alkanoates

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=B6005973&Units=SI>

Thermal and odd even behaviour in a homologous series of lithium n-alkanoates: <https://www.doi.org/10.1016/j.jct.2010.11.011>

Lithium C1-C12 n-Alkanoates: Thermal behavior from -30C to 600C: <https://www.doi.org/10.1021/jc400054m>

Legend

rhos: Solid Density
tf: Normal melting (fusion) point

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<https://www.chemeo.com/cid/11-360-9/Octanoic-acid-lithium-salt.pdf>

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