

Lithium heptanoate

Other names:	heptanoic acid, lithium salt
Inchi:	InChI=1S/C7H14O2.Li/c1-2-3-4-5-6-7(8)9;/h2-6H2,1H3,(H,8,9);/q;+1/p-1
InchiKey:	RQZHWDLISAJCLK-UHFFFAOYSA-M
Formula:	C7H13LiO2
SMILES:	CCCCCCC(=O)[O-].[Li+]
Mol. weight [g/mol]:	136.12
CAS:	16761-13-0

Physical Properties

Property code	Value	Unit	Source
ss	231.06	J/mol×K	NIST Webbook
ss	231.06	J/mol×K	NIST Webbook
tf	547.55	K	Lithium C1-C12 n-Alkanoates: Thermal behavior from -30C to 600C

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	231.72	J/mol×K	300.00	NIST Webbook
cps	231.72	J/mol×K	298.15	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C16761130&Units=SI>

Lithium C1-C12 n-Alkanoates: Thermal behavior from -30C to 600C: <https://www.doi.org/10.1021/je400054m>

Legend

cps:	Solid phase heat capacity
ss:	Solid phase molar entropy at standard conditions
tf:	Normal melting (fusion) point

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