# lithium chloride

Inchi:	InChI=1S/CIH.Li/h1H;/q;+1/p-1
InchiKey:	KWGKDLIKAYFUFQ-UHFFFAOYSA-M
Formula:	CILi
SMILES:	[CI-].[Li+]
Mol. weight [g/mol]:	42.39
CAS:	7447-41-8

## **Physical Properties**

Property code	Value	Unit	Source
affp	827.00	kJ/mol	NIST Webbook
basg	800.50	kJ/mol	NIST Webbook
ea	0.59 ± 0.01	eV	NIST Webbook
ea	0.61 ± 0.02	eV	NIST Webbook
ea	1.28	eV	NIST Webbook
ie	9.80 ± 0.10	eV	NIST Webbook
ie	9.57	eV	NIST Webbook
ie	10.00	eV	NIST Webbook
ie	9.57	eV	NIST Webbook
ie	10.10	eV	NIST Webbook
ie	10.01 ± 0.02	eV	NIST Webbook

#### **Temperature Dependent Properties**

Property code	Value	Unit	Temperature [K]	Source
speedsl	1988.00	m/s	950.00	Sound Velocity and Adiabatic Compressibility of Molten MCI + NdCl3 Mixtures (M = Li, Na, K, and Cs)
speedsl	1973.00	m/s	976.00	Sound Velocity and Adiabatic Compressibility of Molten MCI + NdCl3 Mixtures (M = Li, Na, K, and Cs)

speedsl	1945.00	m/s	1003.00	Sound Velocity	
Specusi	10+0.00	11/3	1000.00	and Adiabatic Compressibility of Molten MCI + NdCl3 Mixtures (M = Li, Na, K, and Cs)	
speedsl	1924.00	m/s	1030.00	Sound Velocity and Adiabatic Compressibility of Molten MCI + NdCI3 Mixtures (M = Li, Na, K, and Cs)	
speedsl	1894.00	m/s	1062.00	Sound Velocity and Adiabatic Compressibility of Molten MCI + NdCI3 Mixtures (M = Li, Na, K, and Cs)	
speedsl	1879.00	m/s	1082.00	Sound Velocity and Adiabatic Compressibility of Molten MCI + NdCI3 Mixtures (M = Li, Na, K, and Cs)	
speedsl	1858.00	m/s	1110.00	Sound Velocity and Adiabatic Compressibility of Molten MCI + NdCI3 Mixtures (M = Li, Na, K, and Cs)	
speedsl	1825.00	m/s	1148.00	Sound Velocity and Adiabatic Compressibility of Molten MCI + NdCl3 Mixtures (M = Li, Na, K, and Cs)	
speedsl	1791.00	m/s	1181.00	Sound Velocity and Adiabatic Compressibility of Molten MCI + NdCl3 Mixtures (M = Li, Na, K, and Cs)	

## Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)

Coeff. A	1.53336e+01
Coeff. B	-1.68081e+04
Coeff. C	-8.75400e+01
Temperature range (K), min.	1056.15
Temperature range (K), max.	1656.15

#### Sources

Effect of lithium chloride on the density https://www.doi.org/10.1016/j.jct.2018.10.003 and dynamic viscosity of choline hibium ablaride and ethanoh southaiss solubilities for Six Ternary Systems: NaCI + NH4CI + H2O, KCI + NH4CI + Kap our opposition and liquids in aqueous salt solutions at water-acetonitrile mixtures at 298.15 K: Mutual diffusion coefficients of 3-methyl-1-butanol + n-heptane and 

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#### Legend

affp:	Proton affinity	
basg:	Gas basicity	
ea:	Electron affinity	
ie:	Ionization energy	
pvap:	Vapor pressure	
speedsl:	Speed of sound in fluid	

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