

lithium bromide

Inchi:	InChI=1S/BrH.Li/h1H;/q;+1/p-1
InchiKey:	AMXOYNBUYSYVKV-UHFFFAOYSA-M
Formula:	BrLi
SMILES:	[Li]Br
Mol. weight [g/mol]:	86.84
CAS:	7550-35-8

Physical Properties

Property code	Value	Unit	Source
affp	819.00	kJ/mol	NIST Webbook
basg	792.50	kJ/mol	NIST Webbook
ea	0.66 ± 0.04	eV	NIST Webbook
ie	8.70	eV	NIST Webbook
ie	9.40	eV	NIST Webbook
ie	9.43 ± 0.05	eV	NIST Webbook
ie	10.00	eV	NIST Webbook
ie	9.30	eV	NIST Webbook
tf	824.00	K	An anion effect on the separation of AgI-containing melts using sound waves

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.54385e+01
Coeff. B	-1.59969e+04
Coeff. C	-1.04720e+02
Temperature range (K), min.	1021.15
Temperature range (K), max.	1583.15

Density of Methanolic Alkali Halide Salt Solutions by Experiment and Molecular Simulation: Temperature Dependence of the Density of Aqueous Alkali Halide Salt Solutions by Experiment and Molecular Simulation: Experimental measurement and modeling of solubility of LiBr and LiNO₃ in methanol, ethanol, 1-propanol, 2-propanol and 1-butanol: <https://www.doi.org/10.1021/je5009944>
<https://www.doi.org/10.1021/je500420g>
<https://www.doi.org/10.1016/j.fluid.2011.03.017>

Legend

affp: Proton affinity
basg: Gas basicity
ea: Electron affinity
ie: Ionization energy
pvap: Vapor pressure
tf: Normal melting (fusion) point

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