

diisobutylaluminium hydride

Other names:	Diisobutylaluminum hydride
Inchi:	InChI=1S/2C4H9.Al.H/c2*1-4(2)3;;/h2*4H,1H2,2-3H3;;
InchiKey:	AZWXAPCAJCYGIA-UHFFFAOYSA-N
Formula:	C8H19Al
SMILES:	CC(C)C[AlH4]CC(C)C
Mol. weight [g/mol]:	142.22
CAS:	1191-15-7

Physical Properties

Property code	Value	Unit	Source
chl	-6412.00 ± 4.20	kJ/mol	NIST Webbook
chl	-6299.00 ± 16.00	kJ/mol	NIST Webbook
hf	-360.00 ± 17.00	kJ/mol	NIST Webbook
hf	-247.00 ± 4.90	kJ/mol	NIST Webbook
hfl	-289.30 ± 4.40	kJ/mol	NIST Webbook
hfl	-402.00 ± 16.00	kJ/mol	NIST Webbook
hvap	42.30 ± 2.10	kJ/mol	NIST Webbook
sl	347.00	J/molxK	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	321.70	J/molxK	298.15	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C1191157&Units=SI>

Legend

chl:	Standard liquid enthalpy of combustion
cpl:	Liquid phase heat capacity
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
sl:	Liquid phase molar entropy at standard conditions

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