Aluminum, chlorodiethyl-

Other names:	Chlorodiethylaluminum
	Diethylaluminium chloride
	Diethylaluminum chloride
	Diethylaluminum monochloride
	Diethylchloroaluminum
	UN 1101
Inchi:	InChI=1S/2C2H5.Al.ClH/c2*1-2;;/h2*1H2,2H3;;1H/q;;+1;/p-1
InchiKey:	YNLAOSYQHBDIKW-UHFFFAOYSA-M
Formula:	C4H10AlCl
SMILES:	CC[AlH3](Cl)CC
Mol. weight [g/mol]:	120.56
CAS:	96-10-6

Physical Properties

Property code	Value	Unit	Source
chl	-3627.50 ± 2.90	kJ/mol	NIST Webbook
hfl	-382.20 ± 3.50	kJ/mol	NIST Webbook
hfl	-423.10 ± 3.60	kJ/mol	NIST Webbook
hfl	-237.80 ± 3.00	kJ/mol	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	50.50	kJ/mol	298.00	NIST Webbook
hvapt	53.90	kJ/mol	373.00	NIST Webbook

Correlations

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

Coeff. A	1.69624e+01
Coeff. B	-5.72084e+03
Coeff. C	-1.77000e+01
Temperature range (K), min.	360.78
Temperature range (K), max.	508.72

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C96106&Units=SI

The Yaws Handbook of Vapor Pressure: https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

Legend

chl: Standard liquid enthalpy of combustion

hfl: Liquid phase enthalpy of formation at standard conditions

hvapt: Enthalpy of vaporization at a given temperature

pvap: Vapor pressure