Propanamide, N,N-bis(2-ethylhexyl)-2-chloro-

Inchi: InChI=1S/C19H38ClNO/c1-6-10-12-17(8-3)14-21(19(22)16(5)20)15-18(9-4)13-11-7-2/h1
InchiKey: LUKYKNLMCMZSGG-UHFFFAOYSA-N
Formula: C19H38ClNO
SMILES: CCCCC(CC)CN(CC(CC)CCCC)C(=O)C(C)Cl
Mol. weight [g/mol]: 331.96

Physical Properties

Property code	Value	Unit	Source
gf	71.71	kJ/mol	Joback Method
hf	-512.12	kJ/mol	Joback Method
hfus	43.21	kJ/mol	Joback Method
hvap	69.90	kJ/mol	Joback Method
log10ws	-5.90		Crippen Method
logp	5.875		Crippen Method
mcvol	302.360	ml/mol	McGowan Method
pc	1115.57	kPa	Joback Method
rinpol	2040.00		NIST Webbook
rinpol	2040.00		NIST Webbook
tb	736.54	K	Joback Method
tc	914.89	K	Joback Method
tf	371.21	K	Joback Method
vc	1.155	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	896.31	J/mol×K	736.54	Joback Method
cpg	915.64	J/mol×K	766.27	Joback Method
cpg	933.99	J/mol×K	795.99	Joback Method
cpg	951.39	J/mol×K	825.72	Joback Method
cpg	967.89	J/mol×K	855.44	Joback Method
cpg	983.52	J/mol×K	885.17	Joback Method
cpg	998.32	J/mol×K	914.89	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308387&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume