Hexanamide, N,N-bis(2-ethylhexyl)-6-chloro-

Inchi: InChI=1S/C22H44ClNO/c1-5-9-14-20(7-3)18-24(19-21(8-4)15-10-6-2)22(25)16-12-11-13
InchiKey: QIAXMLYRWAMPLX-UHFFFAOYSA-N
Formula: C22H44ClNO
SMILES: CCCCC(CC)CN(CC(CC)CCCC)C(=O)CCCCCCl
Mol. weight [g/mol]: 374.04

Physical Properties

Property code	Value	Unit	Source
gf	99.41	kJ/mol	Joback Method
hf	-568.76	kJ/mol	Joback Method
hfus	54.51	kJ/mol	Joback Method
hvap	76.96	kJ/mol	Joback Method
log10ws	-7.05		Crippen Method
logp	7.047		Crippen Method
mcvol	344.630	ml/mol	McGowan Method
pc	923.86	kPa	Joback Method
rinpol	2377.00		NIST Webbook
rinpol	2377.00		NIST Webbook
tb	805.62	K	Joback Method
tc	988.69	K	Joback Method
tf	420.02	K	Joback Method
vc	1.329	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1078.60	J/mol×K	805.62	Joback Method
cpg	1098.88	J/mol×K	836.13	Joback Method
cpg	1118.09	J/mol×K	866.64	Joback Method
cpg	1136.28	J/mol×K	897.16	Joback Method
cpg	1153.50	J/mol×K	927.67	Joback Method
cpg	1169.80	J/mol×K	958.18	Joback Method
cpg	1185.22	J/mol×K	988.69	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308659&Units=SI

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