Hexanamide, N,N-dinonyl-6-chloro-

Inchi: InChI=1S/C24H48ClNO/c1-3-5-7-9-11-13-18-22-26(24(27)20-16-15-17-21-25)23-19-14-1
InchiKey: ARRDNVVGNRQBES-UHFFFAOYSA-N
Formula: C24H48ClNO
SMILES: CCCCCCCCCN(CCCCCCCCC)C(=O)CCCCCCl
Mol. weight [g/mol]: 402.10

Physical Properties

Property code	Value	Unit	Source
gf	121.13	kJ/mol	Joback Method
hf	-599.48	kJ/mol	Joback Method
hfus	66.73	kJ/mol	Joback Method
hvap	82.19	kJ/mol	Joback Method
log10ws	-8.37		Crippen Method
logp	8.115		Crippen Method
mcvol	372.810	ml/mol	McGowan Method
pc	817.26	kPa	Joback Method
rinpol	2794.00		NIST Webbook
rinpol	2794.00		NIST Webbook
tb	852.26	K	Joback Method
tc	1043.49	K	Joback Method
tf	472.56	K	Joback Method
vc	1.452	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1203.52	J/mol×K	852.26	Joback Method
cpg	1224.79	J/mol×K	884.13	Joback Method
cpg	1244.91	J/mol×K	916.00	Joback Method
cpg	1263.93	J/mol×K	947.87	Joback Method
cpg	1281.91	J/mol×K	979.74	Joback Method
cpg	1298.92	J/mol×K	1011.62	Joback Method
cpg	1315.02	J/mol×K	1043.49	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=U308661&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