Propanamide, N,N-dinonyl-3-chloro-

Inchi: InChI=1S/C21H42ClNO/c1-3-5-7-9-11-13-15-19-23(21(24)17-18-22)20-16-14-12-10-8-6-
InchiKey: IXOQRAVVQUMNPF-UHFFFAOYSA-N
Formula: C21H42ClNO
SMILES: CCCCCCCCCN(CCCCCCCCC)C(=O)CCCl
Mol. weight [g/mol]: 360.02

Physical Properties

Property code	Value	Unit	Source
gf	95.87	kJ/mol	Joback Method
hf	-537.56	kJ/mol	Joback Method
hfus	58.96	kJ/mol	Joback Method
hvap	75.51	kJ/mol	Joback Method
log10ws	-7.11		Crippen Method
logp	6.945		Crippen Method
mcvol	330.540	ml/mol	McGowan Method
pc	970.49	kPa	Joback Method
rinpol	2572.00		NIST Webbook
rinpol	2572.00		NIST Webbook
tb	783.62	K	Joback Method
tc	962.16	K	Joback Method
tf	438.75	K	Joback Method
vc	1.284	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1015.93	J/mol×K	783.62	Joback Method
cpg	1035.59	J/mol×K	813.38	Joback Method
cpg	1054.26	J/mol×K	843.13	Joback Method
cpg	1071.98	J/mol×K	872.89	Joback Method
cpg	1088.80	J/mol×K	902.65	Joback Method
cpg	1104.77	J/mol×K	932.41	Joback Method
cpg	1119.91	J/mol×K	962.16	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=U308508&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