Cyclopropanecarboxamide, N,N-dinonyl-

Inchi: InChI=1S/C22H43NO/c1-3-5-7-9-11-13-15-19-23(22(24)21-17-18-21)20-16-14-12-10-8-6
InchiKey: DCZOVQCJEMXEHL-UHFFFAOYSA-N
Formula: C22H43NO
SMILES: CCCCCCCCCN(CCCCCCCCC)C(=O)C1CC1
Mol. weight [g/mol]: 337.58

Physical Properties

Property code	Value	Unit	Source
gf	176.97	kJ/mol	Joback Method
hf	-469.66	kJ/mol	Joback Method
hfus	55.49	kJ/mol	Joback Method
hvap	73.27	kJ/mol	Joback Method
log10ws	-7.03		Crippen Method
logp	6.726		Crippen Method
mcvol	321.530	ml/mol	McGowan Method
pc	1014.89	kPa	Joback Method
rinpol	2475.00		NIST Webbook
rinpol	2475.00		NIST Webbook
tb	775.81	K	Joback Method
tc	954.72	K	Joback Method
tf	438.04	K	Joback Method
vc	1.248	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1026.78	J/mol×K	775.81	Joback Method
cpg	1047.60	J/mol×K	805.63	Joback Method
cpg	1067.41	J/mol×K	835.45	Joback Method
cpg	1086.26	J/mol×K	865.26	Joback Method
cpg	1104.21	J/mol×K	895.08	Joback Method
cpg	1121.33	J/mol×K	924.90	Joback Method
cpg	1137.66	J/mol×K	954.72	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=U308583&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