Cyclopropanecarboxamide, N,N-didecyl-

Inchi: InChI=1S/C24H47NO/c1-3-5-7-9-11-13-15-17-21-25(24(26)23-19-20-23)22-18-16-14-12-
InchiKey: RQJNPCAGSJTPIK-UHFFFAOYSA-N
Formula: C24H47NO
SMILES: CCCCCCCCCCN(CCCCCCCCCC)C(=O)C1CC1
Mol. weight [g/mol]: 365.64

Physical Properties

Property code	Value	Unit	Source
gf	193.81	kJ/mol	Joback Method
hf	-510.94	kJ/mol	Joback Method
hfus	60.67	kJ/mol	Joback Method
hvap	77.72	kJ/mol	Joback Method
log10ws	-7.87		Crippen Method
logp	7.506		Crippen Method
mcvol	349.710	ml/mol	McGowan Method
pc	901.26	kPa	Joback Method
rinpol	2672.00		NIST Webbook
tb	821.57	K	Joback Method
tc	1006.73	K	Joback Method
tf	460.58	K	Joback Method
vc	1.361	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1152.36	J/mol×K	821.57	Joback Method
cpg	1174.09	J/mol×K	852.43	Joback Method
cpg	1194.74	J/mol×K	883.29	Joback Method
cpg	1214.38	J/mol×K	914.15	Joback Method
cpg	1233.08	J/mol×K	945.01	Joback Method
cpg	1250.91	J/mol×K	975.87	Joback Method
cpg	1267.95	J/mol×K	1006.73	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308584&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