Cyclopropanecarboxamide, N,N-diundecyl-

Inchi: InChI=1S/C26H51NO/c1-3-5-7-9-11-13-15-17-19-23-27(26(28)25-21-22-25)24-20-18-16-
InchiKey: VMOFEQDBIGGWEZ-UHFFFAOYSA-N
Formula: C26H51NO
SMILES: CCCCCCCCCCCN(CCCCCCCCCCC)C(=O)C1CC1
Mol. weight [g/mol]: 393.69

Physical Properties

Property code	Value	Unit	Source
gf	210.65	kJ/mol	Joback Method
hf	-552.22	kJ/mol	Joback Method
hfus	65.85	kJ/mol	Joback Method
hvap	82.17	kJ/mol	Joback Method
log10ws	-8.70		Crippen Method
logp	8.287		Crippen Method
mcvol	377.890	ml/mol	McGowan Method
pc	805.70	kPa	Joback Method
rinpol	2887.00		NIST Webbook
tb	867.33	K	Joback Method
tc	1062.01	K	Joback Method
tf	483.12	K	Joback Method
vc	1.472	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1280.85	J/mol×K	867.33	Joback Method
cpg	1303.75	J/mol×K	899.78	Joback Method
cpg	1325.48	J/mol×K	932.22	Joback Method
cpg	1346.12	J/mol×K	964.67	Joback Method
cpg	1365.78	J/mol×K	997.11	Joback Method
cpg	1384.52	J/mol×K	1029.56	Joback Method
cpg	1402.45	J/mol×K	1062.01	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=U308585&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