Cyclopropanecarboxamide, N-heptyl-N-octyl-

Inchi: InChI=1S/C19H37NO/c1-3-5-7-9-11-13-17-20(19(21)18-14-15-18)16-12-10-8-6-4-2/h18H
InchiKey: XZLJWYABQJITCA-UHFFFAOYSA-N
Formula: C19H37NO
SMILES: CCCCCCCCN(CCCCCCC)C(=O)C1CC1
Mol. weight [g/mol]: 295.50

Physical Properties

Property code	Value	Unit	Source
gf	151.71	kJ/mol	Joback Method
hf	-407.74	kJ/mol	Joback Method
hfus	47.72	kJ/mol	Joback Method
hvap	66.59	kJ/mol	Joback Method
log10ws	-5.77		Crippen Method
logp	5.556		Crippen Method
mcvol	279.260	ml/mol	McGowan Method
pc	1230.28	kPa	Joback Method
rinpol	2170.00		NIST Webbook
rinpol	2170.00		NIST Webbook
tb	707.17	K	Joback Method
tc	881.71	K	Joback Method
tf	404.23	K	Joback Method
vc	1.081	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	844.81	J/mol×K	707.17	Joback Method
cpg	864.59	J/mol×K	736.26	Joback Method
cpg	883.41	J/mol×K	765.35	Joback Method
cpg	901.33	J/mol×K	794.44	Joback Method
cpg	918.38	J/mol×K	823.53	Joback Method
cpg	934.63	J/mol×K	852.62	Joback Method
cpg	950.11	J/mol×K	881.71	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308581&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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

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