Propanamide, N-decyl-N-methyl-3-cyclopentyl-

Inchi: InChI=1S/C19H37NO/c1-3-4-5-6-7-8-9-12-17-20(2)19(21)16-15-18-13-10-11-14-18/h18H
InchiKey: WFOMRDAFLSPYOR-UHFFFAOYSA-N
Formula: C19H37NO
SMILES: CCCCCCCCCCN(C)C(=O)CCC1CCCC1
Mol. weight [g/mol]: 295.50

Physical Properties

Property code	Value	Unit	Source
gf	127.51	kJ/mol	Joback Method
hf	-420.06	kJ/mol	Joback Method
hfus	43.52	kJ/mol	Joback Method
hvap	66.93	kJ/mol	Joback Method
log10ws	-5.77		Crippen Method
logp	5.556		Crippen Method
mcvol	279.260	ml/mol	McGowan Method
pc	1274.60	kPa	Joback Method
rinpol	2313.00		NIST Webbook
rinpol	2313.00		NIST Webbook
tb	715.71	K	Joback Method
tc	897.55	K	Joback Method
tf	397.19	K	Joback Method
vc	1.065	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	852.35	J/mol×K	715.71	Joback Method
cpg	873.26	J/mol×K	746.02	Joback Method
cpg	893.08	J/mol×K	776.32	Joback Method
cpg	911.84	J/mol×K	806.63	Joback Method
cpg	929.60	J/mol×K	836.94	Joback Method
cpg	946.40	J/mol×K	867.25	Joback Method
cpg	962.29	J/mol×K	897.55	Joback Method

Sources

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=U308282&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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