Propanamide, N-cyclohexyl-

Inchi: InChI=1S/C9H17NO/c1-2-9(11)10-8-6-4-3-5-7-8/h8H,2-7H2,1H3,(H,10,11)
InchiKey: OSLMDZTZEPAYCP-UHFFFAOYSA-N
Formula: C9H17NO
SMILES: CCC(=O)NC1CCCCC1
Mol. weight [g/mol]: 155.24
CAS: 1126-56-3

Physical Properties

Property code	Value	Unit	Source
gf	9.82	kJ/mol	Joback Method
hf	-233.88	kJ/mol	Joback Method
hfus	17.60	kJ/mol	Joback Method
hvap	49.24	kJ/mol	Joback Method
log10ws	-2.56		Crippen Method
logp	1.845		Crippen Method
mcvol	138.360	ml/mol	McGowan Method
pc	3082.99	kPa	Joback Method
rinpol	1378.00		NIST Webbook
tb	528.91	K	Joback Method
tc	740.22	K	Joback Method
tf	301.16	K	Joback Method
vc	0.513	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	334.06	J/mol×K	528.91	Joback Method
cpg	351.48	J/mol×K	564.13	Joback Method
cpg	367.92	J/mol×K	599.35	Joback Method
cpg	383.40	J/mol×K	634.56	Joback Method
cpg	397.96	J/mol×K	669.78	Joback Method
cpg	411.62	J/mol×K	705.00	Joback Method
cpg	424.42	J/mol×K	740.22	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=C1126563&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