Propanamide, N-tetrahydrofurfuryl-2-chloro-

Inchi: InChI=1S/C8H14ClNO2/c1-6(9)8(11)10-5-7-3-2-4-12-7/h6-7H,2-5H2,1H3,(H,10,11)
InchiKey: CCYFCLVMSOMMEF-UHFFFAOYSA-N
Formula: C8H14ClNO2
SMILES: CC(Cl)C(=O)NCC1CCCO1
Mol. weight [g/mol]: 191.66

Physical Properties

Property code	Value	Unit	Source
gf	-86.99	kJ/mol	Joback Method
hf	-360.10	kJ/mol	Joback Method
hfus	25.76	kJ/mol	Joback Method
hvap	55.35	kJ/mol	Joback Method
log10ws	-1.49		Crippen Method
logp	0.909		Crippen Method
mcvol	142.380	ml/mol	McGowan Method
pc	3199.16	kPa	Joback Method
rinpol	1396.00		NIST Webbook
tb	565.70	K	Joback Method
tc	780.34	K	Joback Method
tf	334.90	K	Joback Method
vc	0.529	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	346.65	J/mol×K	565.70	Joback Method
cpg	361.17	J/mol×K	601.47	Joback Method
cpg	374.78	J/mol×K	637.25	Joback Method
cpg	387.53	J/mol×K	673.02	Joback Method
cpg	399.43	J/mol×K	708.80	Joback Method
cpg	410.54	J/mol×K	744.57	Joback Method
cpg	420.88	J/mol×K	780.34	Joback Method

Sources

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=U307482&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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