Acetamide, N-tetrahydrofurfuryl-2-methoxy-

Inchi: InChI=1S/C8H15NO3/c1-11-6-8(10)9-5-7-3-2-4-12-7/h7H,2-6H2,1H3,(H,9,10)
InchiKey: ZMLJVGQFLGGFRD-UHFFFAOYSA-N
Formula: C8H15NO3
SMILES: COCC(=O)NCC1CCCO1
Mol. weight [g/mol]: 173.21

Physical Properties

Property code	Value	Unit	Source
gf	-177.62	kJ/mol	Joback Method
hf	-471.30	kJ/mol	Joback Method
hfus	26.28	kJ/mol	Joback Method
hvap	53.76	kJ/mol	Joback Method
log10ws	-0.32		Crippen Method
logp	-0.072		Crippen Method
mcvol	136.010	ml/mol	McGowan Method
pc	3243.03	kPa	Joback Method
rinpol	1403.00		NIST Webbook
rinpol	1403.00		NIST Webbook
tb	551.13	K	Joback Method
tc	754.77	K	Joback Method
tf	342.21	K	Joback Method
vc	0.504	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	343.22	J/mol×K	551.13	Joback Method
cpg	357.91	J/mol×K	585.07	Joback Method
cpg	371.82	J/mol×K	619.01	Joback Method
cpg	384.98	J/mol×K	652.95	Joback Method
cpg	397.39	J/mol×K	686.89	Joback Method
cpg	409.07	J/mol×K	720.83	Joback Method
cpg	420.03	J/mol×K	754.77	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=U307255&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