Octanamide, N-tetrahydrofurfuryl-

Inchi: InChI=1S/C13H25NO2/c1-2-3-4-5-6-9-13(15)14-11-12-8-7-10-16-12/h12H,2-11H2,1H3,(
InchiKey: XGUHXZQZNDSZKK-UHFFFAOYSA-N
Formula: C13H25NO2
SMILES: CCCCCCCC(=O)NCC1CCCO1
Mol. weight [g/mol]: 227.34

Physical Properties

Property code	Value	Unit	Source
gf	-30.52	kJ/mol	Joback Method
hf	-442.28	kJ/mol	Joback Method
hfus	38.04	kJ/mol	Joback Method
hvap	62.48	kJ/mol	Joback Method
log10ws	-3.32		Crippen Method
logp	2.642		Crippen Method
mcvol	200.590	ml/mol	McGowan Method
pc	2030.89	kPa	Joback Method
rinpol	1837.00		NIST Webbook
tb	643.11	K	Joback Method
tc	835.33	K	Joback Method
tf	376.33	K	Joback Method
vc	0.766	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	569.31	J/mol×K	643.11	Joback Method
cpg	587.09	J/mol×K	675.15	Joback Method
cpg	603.90	J/mol×K	707.18	Joback Method
cpg	619.78	J/mol×K	739.22	Joback Method
cpg	634.76	J/mol×K	771.25	Joback Method
cpg	648.88	J/mol×K	803.29	Joback Method
cpg	662.17	J/mol×K	835.33	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=U306922&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