N-(2-oxotetrahydrofuran-3-yl)nonanamide

Inchi: InChI=1S/C13H23NO3/c1-2-3-4-5-6-7-8-12(15)14-11-9-10-17-13(11)16/h11H,2-10H2,1H
InchiKey: OMPXHNXRUVEQDO-UHFFFAOYSA-N
Formula: C13H23NO3
SMILES: CCCCCCCCC(=O)NC1CCOC1=O
Mol. weight [g/mol]: 241.33
CAS: 106983-32-8

Physical Properties

Property code	Value	Unit	Source
gf	-153.11	kJ/mol	Joback Method
hf	-579.98	kJ/mol	Joback Method
hfus	37.55	kJ/mol	Joback Method
hvap	66.73	kJ/mol	Joback Method
log10ws	-3.10		Crippen Method
logp	2.169		Crippen Method
mcvol	202.160	ml/mol	McGowan Method
pc	2096.50	kPa	Joback Method
rinpol	2050.20		NIST Webbook
rinpol	2050.20		NIST Webbook
tb	710.93	K	Joback Method
tc	914.35	K	Joback Method
tf	444.55	K	Joback Method
vc	0.773	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	605.31	J/mol×K	710.93	Joback Method
cpg	622.22	J/mol×K	744.83	Joback Method
cpg	638.11	J/mol×K	778.74	Joback Method
cpg	653.00	J/mol×K	812.64	Joback Method
cpg	666.90	J/mol×K	846.54	Joback Method
cpg	679.83	J/mol×K	880.45	Joback Method
cpg	691.80	J/mol×K	914.35	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C106983328&Units=SI
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

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