8-Methyl-6-nonenamide

Inchi: InChI=1S/C10H19NO/c1-9(2)7-5-3-4-6-8-10(11)12/h5,7,9H,3-4,6,8H2,1-2H3,(H2,11,12)/b
InchiKey: YXENPUXPUOBZON-FNORWQNLSA-N
Formula: C10H19NO
SMILES: CC(C)C=CCCCCC(N)=O
Mol. weight [g/mol]: 169.26

Physical Properties

Property code	Value	Unit	Source
gf	48.63	kJ/mol	Joback Method
hf	-216.58	kJ/mol	Joback Method
hfus	25.13	kJ/mol	Joback Method
hvap	54.81	kJ/mol	Joback Method
log10ws	-2.83		Crippen Method
logp	2.244		Crippen Method
mcvol	159.010	ml/mol	McGowan Method
pc	2505.01	kPa	Joback Method
ripol	2529.00		NIST Webbook
tb	558.32	K	Joback Method
tc	752.84	K	Joback Method
tf	315.57	K	Joback Method
vc	0.605	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	388.01	J/mol×K	558.32	Joback Method
cpg	402.36	J/mol×K	590.74	Joback Method
cpg	415.97	J/mol×K	623.16	Joback Method
cpg	428.86	J/mol×K	655.58	Joback Method
cpg	441.08	J/mol×K	688.00	Joback Method
cpg	452.65	J/mol×K	720.42	Joback Method
cpg	463.60	J/mol×K	752.84	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=U293209&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume