Pentanamide, N,N-dihexyl-

Inchi: InChI=1S/C17H35NO/c1-4-7-10-12-15-18(16-13-11-8-5-2)17(19)14-9-6-3/h4-16H2,1-3H3
InchiKey: JMPFRSTVOKJKHS-UHFFFAOYSA-N
Formula: C17H35NO
SMILES: CCCCCCN(CCCCCC)C(=O)CCCC
Mol. weight [g/mol]: 269.47

Physical Properties

Property code	Value	Unit	Source
gf	74.12	kJ/mol	Joback Method
hf	-439.26	kJ/mol	Joback Method
hfus	44.41	kJ/mol	Joback Method
hvap	62.23	kJ/mol	Joback Method
log10ws	-5.28		Crippen Method
logp	5.166		Crippen Method
mcvol	261.940	ml/mol	McGowan Method
pc	1285.59	kPa	Joback Method
rinpol	1923.00		NIST Webbook
rinpol	1923.00		NIST Webbook
tb	654.67	K	Joback Method
tc	821.09	K	Joback Method
tf	363.75	K	Joback Method
vc	1.012	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	741.88	J/mol×K	654.67	Joback Method
cpg	760.70	J/mol×K	682.41	Joback Method
cpg	778.69	J/mol×K	710.14	Joback Method
cpg	795.87	J/mol×K	737.88	Joback Method
cpg	812.26	J/mol×K	765.62	Joback Method
cpg	827.90	J/mol×K	793.35	Joback Method
cpg	842.81	J/mol×K	821.09	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=U308180&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