Propanamide, 2-methyl-N-ethyl-N-undecyl-

Inchi: InChI=1S/C17H35NO/c1-5-7-8-9-10-11-12-13-14-15-18(6-2)17(19)16(3)4/h16H,5-15H2,1
InchiKey: GJLILKIFYDIAKN-UHFFFAOYSA-N
Formula: C17H35NO
SMILES: CCCCCCCCCCCN(CC)C(=O)C(C)C
Mol. weight [g/mol]: 269.47

Physical Properties

Property code	Value	Unit	Source
gf	71.68	kJ/mol	Joback Method
hf	-444.54	kJ/mol	Joback Method
hfus	40.88	kJ/mol	Joback Method
hvap	61.84	kJ/mol	Joback Method
log10ws	-5.04		Crippen Method
logp	5.022		Crippen Method
mcvol	261.940	ml/mol	McGowan Method
pc	1293.00	kPa	Joback Method
rinpol	2246.00		NIST Webbook
rinpol	2246.00		NIST Webbook
tb	654.23	K	Joback Method
tc	822.70	K	Joback Method
tf	348.75	K	Joback Method
vc	1.006	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	742.25	J/mol×K	654.23	Joback Method
cpg	761.35	J/mol×K	682.31	Joback Method
cpg	779.57	J/mol×K	710.39	Joback Method
cpg	796.96	J/mol×K	738.46	Joback Method
cpg	813.55	J/mol×K	766.54	Joback Method
cpg	829.35	J/mol×K	794.62	Joback Method
cpg	844.40	J/mol×K	822.70	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415349&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

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