

Hexanamide, N-ethyl-N-decyl-

Inchi:	InChI=1S/C18H37NO/c1-4-7-9-10-11-12-13-15-17-19(6-3)18(20)16-14-8-5-2/h4-17H2,1-
InchiKey:	QXZYBRZSOCNUSF-UHFFFAOYSA-N
Formula:	C18H37NO
SMILES:	CCCCCCCCCN(CC)C(=O)CCCC
Mol. weight [g/mol]:	283.49

Physical Properties

Property code	Value	Unit	Source
gf	82.54	kJ/mol	Joback Method
hf	-459.90	kJ/mol	Joback Method
hfus	47.00	kJ/mol	Joback Method
hvap	64.45	kJ/mol	Joback Method
log10ws	-5.70		Crippen Method
logp	5.556		Crippen Method
mvol	276.030	ml/mol	McGowan Method
pc	1201.46	kPa	Joback Method
rinpol	2496.00		NIST Webbook
rinpol	2496.00		NIST Webbook
tb	677.55	K	Joback Method
tc	844.58	K	Joback Method
tf	375.02	K	Joback Method
vc	1.067	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	799.65	J/mol×K	677.55	Joback Method
cpg	818.88	J/mol×K	705.39	Joback Method
cpg	837.23	J/mol×K	733.23	Joback Method
cpg	854.75	J/mol×K	761.06	Joback Method
cpg	871.46	J/mol×K	788.90	Joback Method
cpg	887.39	J/mol×K	816.74	Joback Method
cpg	902.58	J/mol×K	844.58	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415427&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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