

N-Methyl hexadecanamide

Inchi:	InChI=1S/C17H35NO/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17(19)18-2/h3-16H2,1-2H1
InchiKey:	STEVSDAHHBNTQD-UHFFFAOYSA-N
Formula:	C17H35NO
SMILES:	CCCCCCCCCCCCCCCC(O)=NC
Mol. weight [g/mol]:	269.47
CAS:	7388-58-1

Physical Properties

Property code	Value	Unit	Source
hf	-474.01	kJ/mol	Joback Method
hvap	73.51	kJ/mol	Joback Method
log10ws	-5.92		Crippen Method
logp	6.054		Crippen Method
mcvol	261.940	ml/mol	McGowan Method
pc	1224.27	kPa	Joback Method
tb	757.10	K	Joback Method
tc	933.93	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	144.50 ± 0.80	kJ/mol	350.00	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7388581&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

Legend

hf:	Enthalpy of formation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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