

# 1-Hexadecanamine, N-methyl-

<b>Other names:</b>	N-methylhexadecylamine methylhexadecylamine
<b>Inchi:</b>	InChI=1S/C17H37N/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-2/h18H,3-17H2,1-2H3
<b>InchiKey:</b>	IHFXTDFDQKABX-UHFFFAOYSA-N
<b>Formula:</b>	C17H37N
<b>SMILES:</b>	CCCCCCCCCCCCCCCCNC
<b>Mol. weight [g/mol]:</b>	255.48
<b>CAS:</b>	13417-08-8

## Physical Properties

Property code	Value	Unit	Source
gf	181.65	kJ/mol	Joback Method
hf	-340.74	kJ/mol	Joback Method
hfus	44.88	kJ/mol	Joback Method
hvap	59.87	kJ/mol	Joback Method
log10ws	-6.13		Crippen Method
logp	5.687		Crippen Method
mvol	260.370	ml/mol	McGowan Method
pc	1242.46	kPa	Joback Method
rinpol	1888.00		NIST Webbook
tb	638.53	K	Joback Method
tc	801.33	K	Joback Method
tf	334.01	K	Joback Method
vc	1.022	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	733.87	J/molxK	638.53	Joback Method
cpg	753.24	J/molxK	665.66	Joback Method
cpg	771.80	J/molxK	692.80	Joback Method
cpg	789.58	J/molxK	719.93	Joback Method
cpg	806.61	J/molxK	747.06	Joback Method
cpg	822.90	J/molxK	774.19	Joback Method

cpg

838.48

J/mol×K

801.33

Joback Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.59162e+01
Coeff. B	-5.48558e+03
Coeff. C	-1.06324e+02
Temperature range (K), min.	457.32
Temperature range (K), max.	623.60

## Sources

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Crippen Method:

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

Joback Method:

[https://en.wikipedia.org/wiki/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=C13417088&Units=SI>

The Yaws Handbook of Vapor Pressure:

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>pvap:</b>	Vapor pressure
<b>rinpol:</b>	Non-polar retention indices

**tb:** Normal Boiling Point Temperature  
**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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