

# 1-Tetradecanamine, N-methyl-

<b>Other names:</b>	N-methyltetradecylamine methyltetradecylamine
<b>Inchi:</b>	InChI=1S/C15H33N/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-2/h16H,3-15H2,1-2H3
<b>InchiKey:</b>	QWERMLCFPMTLTG-UHFFFAOYSA-N
<b>Formula:</b>	C15H33N
<b>SMILES:</b>	CCCCCCCCCCCCCNC
<b>Mol. weight [g/mol]:</b>	227.43
<b>CAS:</b>	29369-63-9

## Physical Properties

Property code	Value	Unit	Source
gf	164.81	kJ/mol	Joback Method
hf	-299.46	kJ/mol	Joback Method
hfus	39.71	kJ/mol	Joback Method
hvap	55.42	kJ/mol	Joback Method
log10ws	-5.29		Crippen Method
logp	4.907		Crippen Method
mcvol	232.190	ml/mol	McGowan Method
pc	1429.38	kPa	Joback Method
rinpol	1686.00		NIST Webbook
rinpol	1686.00		NIST Webbook
tb	592.77	K	Joback Method
tc	755.38	K	Joback Method
tf	301.65 ± 2.00	K	NIST Webbook
tf	301.65 ± 2.00	K	NIST Webbook
vc	0.910	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	621.78	J/mol×K	592.77	Joback Method
cpg	640.25	J/mol×K	619.87	Joback Method
cpg	657.98	J/mol×K	646.97	Joback Method
cpg	674.97	J/mol×K	674.08	Joback Method

cpg	691.26	J/mol×K	701.18	Joback Method
cpg	706.86	J/mol×K	728.28	Joback Method
cpg	721.80	J/mol×K	755.38	Joback Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.60539e+01
Coeff. B	-5.30348e+03
Coeff. C	-9.85400e+01
Temperature range (K), min.	434.92
Temperature range (K), max.	592.23

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C29369639&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C29369639&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</a>

## 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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure

<b>pvap:</b>	Vapor pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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