

# 1-Octanamine, N-methyl-N-octyl-

<b>Other names:</b>	Di(octyl)methylamine N,N-Dioctylmethylamine N-Methyldi-n-octylamine N-Methyldioctylamine methyldioctylamine
<b>Inchi:</b>	InChI=1S/C17H37N/c1-4-6-8-10-12-14-16-18(3)17-15-13-11-9-7-5-2/h4-17H2,1-3H3
<b>InchiKey:</b>	YJLYANLCNIKXMG-UHFFFAOYSA-N
<b>Formula:</b>	C17H37N
<b>SMILES:</b>	CCCCCCCCN(C)CCCCCCC
<b>Mol. weight [g/mol]:</b>	255.48
<b>CAS:</b>	4455-26-9

## Physical Properties

Property code	Value	Unit	Source
gf	203.04	kJ/mol	Joback Method
hf	-326.68	kJ/mol	Joback Method
hfus	42.81	kJ/mol	Joback Method
hvap	55.48	kJ/mol	Joback Method
log10ws	-5.51		Crippen Method
logp	5.639		Crippen Method
mcvol	260.370	ml/mol	McGowan Method
pc	1229.42	kPa	Joback Method
ripol	1770.00		NIST Webbook
tb	600.80	K	Joback Method
tc	758.95	K	Joback Method
tf	313.82	K	Joback Method
vc	1.006	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	707.48	J/mol×K	600.80	Joback Method
cpg	727.42	J/mol×K	627.16	Joback Method
cpg	746.55	J/mol×K	653.52	Joback Method

cpg	764.89	J/mol×K	679.87	Joback Method
cpg	782.48	J/mol×K	706.23	Joback Method
cpg	799.33	J/mol×K	732.59	Joback Method
cpg	815.46	J/mol×K	758.95	Joback Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.76453e+01
Coeff. B	-6.07255e+03
Coeff. C	-1.05712e+02
Temperature range (K), min.	455.56
Temperature range (K), max.	598.06

## 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=C4455269&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4455269&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>ripol:</b>	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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