

# 1-Octanamine, N-methyl-

<b>Other names:</b>	Methyl n-octyl amine Methyloctylamine N-Methyl-N-n-octylamine N-Methyl-n-octylamine N-Methyloctylamine N-Octyl-N-methylamine Octylamine, N-methyl- Octylmethylamine
<b>Inchi:</b>	InChI=1S/C9H21N/c1-3-4-5-6-7-8-9-10-2/h10H,3-9H2,1-2H3
<b>InchiKey:</b>	SEGJNMCIMOLEDM-UHFFFAOYSA-N
<b>Formula:</b>	C9H21N
<b>SMILES:</b>	CCCCCCCCNC
<b>Mol. weight [g/mol]:</b>	143.27
<b>CAS:</b>	2439-54-5

## Physical Properties

Property code	Value	Unit	Source
gf	114.29	kJ/mol	Joback Method
hf	-175.62	kJ/mol	Joback Method
hfus	24.16	kJ/mol	Joback Method
hvap	42.06	kJ/mol	Joback Method
log10ws	-2.78		Crippen Method
logp	2.566		Crippen Method
mcvol	147.650	ml/mol	McGowan Method
pc	2336.03	kPa	Joback Method
rinpol	1087.00		NIST Webbook
rinpol	1086.00		NIST Webbook
rinpol	1087.00		NIST Webbook
rinpol	1087.00		NIST Webbook
rinpol	1088.00		NIST Webbook
rinpol	1088.00		NIST Webbook
rinpol	1088.00		NIST Webbook
rinpol	1088.00		NIST Webbook
rinpol	1087.00		NIST Webbook
rinpol	1090.00		NIST Webbook
rinpol	1088.00		NIST Webbook
rinpol	1089.00		NIST Webbook

rinpol	1090.00		NIST Webbook
rinpol	1090.00		NIST Webbook
rinpol	1085.00		NIST Webbook
rinpol	1085.00		NIST Webbook
rinpol	1090.00		NIST Webbook
rinpol	1089.00		NIST Webbook
rinpol	1089.00		NIST Webbook
rinpol	1088.00		NIST Webbook
rinpol	1088.00		NIST Webbook
rinpol	1088.00		NIST Webbook
tb	455.49	K	Joback Method
tc	622.89	K	Joback Method
tf	243.85	K	Joback Method
vc	0.575	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	322.73	J/mol×K	455.49	Joback Method
cpg	337.31	J/mol×K	483.39	Joback Method
cpg	351.32	J/mol×K	511.29	Joback Method
cpg	364.79	J/mol×K	539.19	Joback Method
cpg	377.73	J/mol×K	567.09	Joback Method
cpg	390.14	J/mol×K	594.99	Joback Method
cpg	402.06	J/mol×K	622.89	Joback Method
hvapt	49.20	kJ/mol	436.50	NIST Webbook

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.62386e+01
Coeff. B	-4.48051e+03
Coeff. C	-6.89880e+01
Temperature range (K), min.	349.88
Temperature range (K), max.	479.02

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2439545&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2439545&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>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

# Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>h<sub>vapt</sub>:</b>	Enthalpy of vaporization at a given temperature
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>pv<sub>ap</sub>:</b>	Vapor pressure
<b>rin<sub>pol</sub>:</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

Latest version available from:

<https://www.chemeo.com/cid/41-249-0/1-Octanamine-N-methyl.pdf>

Generated by Cheméo on 2024-04-19 15:43:36.683448708 +0000 UTC m=+15830665.604026021.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.