

# 2-Octanamine, (.+/-.)-

<b>Inchi:</b>	InChI=1S/C8H19N/c1-3-4-5-6-7-8(2)9/h8H,3-7,9H2,1-2H3
<b>InchiKey:</b>	HBXNJMZWGSKPW-UHFFFAOYSA-N
<b>Formula:</b>	C8H19N
<b>SMILES:</b>	CCCCCCC(C)N
<b>Mol. weight [g/mol]:</b>	129.24
<b>CAS:</b>	44855-57-4

## Physical Properties

Property code	Value	Unit	Source
gf	80.49	kJ/mol	Joback Method
hf	-179.94	kJ/mol	Joback Method
hfus	18.15	kJ/mol	Joback Method
hvap	43.66	kJ/mol	Joback Method
log10ws	-2.72		Crippen Method
logp	2.304		Crippen Method
mcvol	133.560	ml/mol	McGowan Method
pc	2709.85	kPa	Joback Method
tb	437.20	K	NIST Webbook
tc	635.72	K	Joback Method
tf	248.18	K	Joback Method
vc	0.506	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	292.68	J/molxK	454.53	Joback Method
cpg	306.70	J/molxK	484.73	Joback Method
cpg	320.12	J/molxK	514.93	Joback Method
cpg	332.98	J/molxK	545.13	Joback Method
cpg	345.29	J/molxK	575.33	Joback Method
cpg	357.05	J/molxK	605.52	Joback Method
cpg	368.30	J/molxK	635.72	Joback Method

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	331.70	K	1.70	NIST Webbook

## Sources

Joback Method:	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C44855574&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C44855574&amp;Units=SI</a>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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