

# Octane, 1-methoxy-

<b>Other names:</b>	n-Octyl methyl ether Ether, methyl octyl Octyl methyl ether Methyl octyl ether 1-Methoxyoctane
<b>Inchi:</b>	InChI=1S/C9H20O/c1-3-4-5-6-7-8-9-10-2/h3-9H2,1-2H3
<b>InchiKey:</b>	RIAWWRJHTAZJSU-UHFFFAOYSA-N
<b>Formula:</b>	C9H20O
<b>SMILES:</b>	CCCCCCCCOC
<b>Mol. weight [g/mol]:</b>	144.25
<b>CAS:</b>	929-56-6

## Physical Properties

Property code	Value	Unit	Source
gf	-80.10	kJ/mol	Joback Method
hf	-361.31	kJ/mol	Joback Method
hfus	20.25	kJ/mol	Joback Method
hvap	38.04	kJ/mol	Joback Method
log10ws	-2.68		Crippen Method
logp	2.993		Crippen Method
mcvol	143.540	ml/mol	McGowan Method
pc	2269.73	kPa	Joback Method
rinpol	1026.30		NIST Webbook
rinpol	1016.00		NIST Webbook
rinpol	1008.00		NIST Webbook
rinpol	1029.50		NIST Webbook
rinpol	1024.00		NIST Webbook
rinpol	1016.00		NIST Webbook
rinpol	1026.30		NIST Webbook
ripol	1132.00		NIST Webbook
ripol	1152.00		NIST Webbook
tb	445.20 ± 0.80	K	NIST Webbook
tc	591.08	K	Joback Method
tf	216.70 ± 0.50	K	NIST Webbook
tf	220.70 ± 0.80	K	NIST Webbook
vc	0.557	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	298.84	J/molxK	427.74	Joback Method
cpg	363.40	J/molxK	563.86	Joback Method
cpg	351.35	J/molxK	536.63	Joback Method
cpg	338.88	J/molxK	509.41	Joback Method
cpg	325.97	J/molxK	482.19	Joback Method
cpg	312.62	J/molxK	454.96	Joback Method
cpg	375.02	J/molxK	591.08	Joback Method
dvisc	0.0002128	Paxs	427.74	Joback Method
dvisc	0.0002795	Paxs	392.02	Joback Method
dvisc	0.0003878	Paxs	356.30	Joback Method
dvisc	0.0005787	Paxs	320.58	Joback Method
dvisc	0.0009547	Paxs	284.86	Joback Method
dvisc	0.0018183	Paxs	249.14	Joback Method
dvisc	0.0042964	Paxs	213.42	Joback Method

## 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=C929566&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C929566&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>ripol:</b>	Non-polar retention indices
<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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