

# 1-Methyl-1,2,3,4-tetrahydronaphthalen-1-ol

<b>Other names:</b>	1-Methyl-1,2,3,4-tetrahydro-1-naphthalenol 1-Methyl-1,2,3,4,-tetrahydro-1-naphthol
<b>Inchi:</b>	InChI=1S/C11H14O/c1-11(12)8-4-6-9-5-2-3-7-10(9)11/h2-3,5,7,12H,4,6,8H2,1H3
<b>InchiKey:</b>	HAQPAIYNBOCMTO-UHFFFAOYSA-N
<b>Formula:</b>	C11H14O
<b>SMILES:</b>	CC1(O)CCCC2CCCCC21
<b>Mol. weight [g/mol]:</b>	162.23
<b>CAS:</b>	14944-28-6

## Physical Properties

Property code	Value	Unit	Source
chs	-6085.20	kJ/mol	NIST Webbook
gf	50.86	kJ/mol	Joback Method
hf	-115.66	kJ/mol	Joback Method
hfus	11.72	kJ/mol	Joback Method
hvap	58.63	kJ/mol	Joback Method
log10ws	-2.82		Crippen Method
logp	2.230		Crippen Method
mcvol	137.100	ml/mol	McGowan Method
pc	3602.88	kPa	Joback Method
tb	586.17	K	Joback Method
tc	805.64	K	Joback Method
tf	351.81	K	Joback Method
vc	0.509	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	342.66	J/mol×K	586.17	Joback Method
cpg	356.60	J/mol×K	622.75	Joback Method
cpg	369.61	J/mol×K	659.33	Joback Method
cpg	381.84	J/mol×K	695.90	Joback Method
cpg	393.44	J/mol×K	732.48	Joback Method
cpg	404.55	J/mol×K	769.06	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=C14944286&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C14944286&amp;Units=SI</a>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<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>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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