

# Bicyclo[2.2.2]octan-1-ol, 4-methyl-

<b>Other names:</b>	1-Hydroxy-4-methylbicyclo[2.2.2]octane bicyclo 2,2,2-octan-1-ol-4-methyl
<b>Inchi:</b>	InChI=1S/C9H16O/c1-8-2-5-9(10,6-3-8)7-4-8/h10H,2-7H2,1H3
<b>InchiKey:</b>	JWGWSFMJBKXMGZ-UHFFFAOYSA-N
<b>Formula:</b>	C9H16O
<b>SMILES:</b>	CC12CCC(O)(CC1)CC2
<b>Mol. weight [g/mol]:</b>	140.22
<b>CAS:</b>	824-13-5

## Physical Properties

Property code	Value	Unit	Source
gf	-25.60	kJ/mol	Joback Method
hf	-217.56	kJ/mol	Joback Method
hfus	2.63	kJ/mol	Joback Method
hvap	50.17	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	2.092		Crippen Method
mcvol	121.820	ml/mol	McGowan Method
pc	3955.54	kPa	Joback Method
ripol	1590.00		NIST Webbook
ripol	1590.00		NIST Webbook
tb	520.00	K	Joback Method
tc	731.78	K	Joback Method
tf	328.65	K	Joback Method
vc	0.453	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	306.07	J/molxK	520.00	Joback Method
cpg	321.45	J/molxK	555.30	Joback Method
cpg	335.56	J/molxK	590.59	Joback Method
cpg	348.62	J/molxK	625.89	Joback Method
cpg	360.86	J/molxK	661.19	Joback Method

cpg	372.49	J/mol×K	696.48	Joback Method
cpg	383.75	J/mol×K	731.78	Joback Method

## Sources

<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=C824135&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C824135&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<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>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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