

# 2-Norbornanone dimethyl ketal

<b>Inchi:</b>	InChI=1S/C9H16O2/c1-10-9(11-2)6-7-3-4-8(9)5-7/h7-8H,3-6H2,1-2H3
<b>InchiKey:</b>	KQURPPICIBDUHU-UHFFFAOYSA-N
<b>Formula:</b>	C9H14O2
<b>SMILES:</b>	COC1(OC)CC2CCC1C2
<b>Mol. weight [g/mol]:</b>	154.21
<b>CAS:</b>	10395-51-4

## Physical Properties

Property code	Value	Unit	Source
gf	-88.90	kJ/mol	Joback Method
hf	-359.19	kJ/mol	Joback Method
hfus	10.38	kJ/mol	Joback Method
hvap	53.01 ± 0.08	kJ/mol	NIST Webbook
log10ws	-1.68		Crippen Method
logp	1.796		Crippen Method
mcvol	127.690	ml/mol	McGowan Method
pc	3022.28	kPa	Joback Method
tb	463.48	K	Joback Method
tc	668.96	K	Joback Method
tf	287.67	K	Joback Method
vc	0.478	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	296.73	J/molxK	463.48	Joback Method
cpg	314.30	J/molxK	497.73	Joback Method
cpg	330.73	J/molxK	531.97	Joback Method
cpg	346.14	J/molxK	566.22	Joback Method
cpg	360.62	J/molxK	600.47	Joback Method
cpg	374.29	J/molxK	634.72	Joback Method
cpg	387.24	J/molxK	668.96	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=C10395514&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C10395514&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>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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