

# 2-Oxabicyclo [4,4,0] dec-9-ene-1,3,7,7-tetramethyl

Inchi:	InChI=1S/C13H22O/c1-9-7-11-5-6-13(3,4)8-12(11)10(2)14-9/h9-10H,5-8H2,1-4H3
InchiKey:	TVUQNVIYEWKRIP-UHFFFAOYSA-N
Formula:	C13H22O
SMILES:	CC1CC2=C(CC(C)(C)CC2)C(C)O1
Mol. weight [g/mol]:	194.31

## Physical Properties

Property code	Value	Unit	Source
gf	43.06	kJ/mol	Joback Method
hf	-292.95	kJ/mol	Joback Method
hfus	20.49	kJ/mol	Joback Method
hvap	49.71	kJ/mol	Joback Method
log10ws	-3.98		Crippen Method
logp	3.690		Crippen Method
mcvol	173.880	ml/mol	McGowan Method
pc	2274.07	kPa	Joback Method
rinpol	1275.00		NIST Webbook
rinpol	1275.00		NIST Webbook
ripol	1470.00		NIST Webbook
tb	559.04	K	Joback Method
tc	781.89	K	Joback Method
tf	330.10	K	Joback Method
vc	0.649	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	452.84	J/molxK	559.04	Joback Method
cpg	474.34	J/molxK	596.18	Joback Method
cpg	494.54	J/molxK	633.32	Joback Method
cpg	513.57	J/molxK	670.47	Joback Method
cpg	531.57	J/molxK	707.61	Joback Method
cpg	548.67	J/molxK	744.75	Joback Method
cpg	565.01	J/molxK	781.89	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=R440152&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R440152&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>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</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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