

# 9-Hydroxymegastigma-4,6-dien-3-one (isomer # 1)

Other names:	6,7-Dehydro-7,8-dihydro-3-oxo-«alpha»-ionol (isomer 1)
Inchi:	InChI=1S/C13H20O2/c1-9-7-11(15)8-13(3,4)12(9)6-5-10(2)14/h6-7,10,14H,5,8H2,1-4H3
InchiKey:	JHWWVZZGBLPJPW-UHFFFAOYSA-N
Formula:	C13H20O2
SMILES:	CC1=CC(=O)CC(C)(C)C1=CCC(C)O
Mol. weight [g/mol]:	208.30

## Physical Properties

Property code	Value	Unit	Source
gf	-118.52	kJ/mol	Joback Method
hf	-414.96	kJ/mol	Joback Method
hfus	16.19	kJ/mol	Joback Method
hvap	66.09	kJ/mol	Joback Method
log10ws	-3.28		Crippen Method
logp	2.629		Crippen Method
mcvol	182.010	ml/mol	McGowan Method
pc	2424.27	kPa	Joback Method
rinpol	1700.00		NIST Webbook
rinpol	1721.00		NIST Webbook
rinpol	1684.00		NIST Webbook
ripol	2720.00		NIST Webbook
ripol	2660.00		NIST Webbook
ripol	2715.00		NIST Webbook
ripol	2685.00		NIST Webbook
tb	686.97	K	Joback Method
tc	896.30	K	Joback Method
tf	405.23	K	Joback Method
vc	0.683	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	509.30	J/molxK	686.97	Joback Method
cpg	524.83	J/molxK	721.86	Joback Method

cpg	539.71	J/mol×K	756.75	Joback Method
cpg	554.03	J/mol×K	791.64	Joback Method
cpg	567.87	J/mol×K	826.52	Joback Method
cpg	581.31	J/mol×K	861.41	Joback Method
cpg	594.44	J/mol×K	896.30	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R184699&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R184699&amp;Units=SI</a>
<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>

## 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>	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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