

# Guaiol

<b>Other names:</b>	5-Azulenemethanol, 1,2,3,4,5,6,7,8-octahydro-«alpha», «alpha»,3,8-tetramethyl-, [3S-(3«alpha»,5«alpha»,8«alpha»)]- Guai-1(5)-en-11-ol Champaca camphor Champacol Guaiac alcohol «alpha»-Guaiol 2-((3S,8S)-1,2,3,4,5,6,7,8-octahydro-3,8-dimethylazulen-5-yl)propan-2-ol
<b>Inchi:</b>	InChI=1S/C15H26O/c1-10-5-7-12(15(3,4)16)9-14-11(2)6-8-13(10)14/h10-12,16H,5-9H2,
<b>InchiKey:</b>	TWVJWDMOZJXUID-SDDRHHMPSA-N
<b>Formula:</b>	C15H26O
<b>SMILES:</b>	CC1CCC(C(C)(C)O)CC2=C1CCC2C
<b>Mol. weight [g/mol]:</b>	222.37
<b>CAS:</b>	489-86-1

## Physical Properties

Property code	Value	Unit	Source
gf	17.53	kJ/mol	Joback Method
hf	-378.45	kJ/mol	Joback Method
hfus	20.67	kJ/mol	Joback Method
hvap	66.19	kJ/mol	Joback Method
log10ws	-4.39		Crippen Method
logp	3.920		Crippen Method
mcvol	202.060	ml/mol	McGowan Method
pc	2040.07	kPa	Joback Method
rinpol	1588.00		NIST Webbook
rinpol	1597.00		NIST Webbook
rinpol	1595.00		NIST Webbook
rinpol	1602.00		NIST Webbook
rinpol	1588.00		NIST Webbook
rinpol	1605.00		NIST Webbook
rinpol	1600.00		NIST Webbook
rinpol	1589.00		NIST Webbook
rinpol	1576.00		NIST Webbook
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ripol	2084.00		NIST Webbook
ripol	2104.00		NIST Webbook
ripol	2088.00		NIST Webbook
ripol	2103.00		NIST Webbook
tb	666.56	K	Joback Method
tc	872.62	K	Joback Method
tf	365.41	K	Joback Method
vc	0.750	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	703.40	J/mol×K	872.62	Joback Method
cpg	689.07	J/mol×K	838.28	Joback Method
cpg	673.77	J/mol×K	803.93	Joback Method
cpg	657.45	J/mol×K	769.59	Joback Method
cpg	640.04	J/mol×K	735.25	Joback Method
cpg	621.49	J/mol×K	700.90	Joback Method
cpg	601.73	J/mol×K	666.56	Joback Method

dvisc	0.0042291	Paxs	365.41	Joback Method
dvisc	0.0000963	Paxs	666.56	Joback Method
dvisc	0.0001400	Paxs	616.37	Joback Method
dvisc	0.0002173	Paxs	566.18	Joback Method
dvisc	0.0003676	Paxs	515.99	Joback Method
dvisc	0.0006963	Paxs	465.79	Joback Method
dvisc	0.0015389	Paxs	415.60	Joback Method
hvapt	62.20	kJ/mol	467.00	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C489861&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C489861&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>
<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>dvisc:</b>	Dynamic viscosity
<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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccvol:</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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