

# 1(10),7(11)-Guaiadiene

<b>Inchi:</b>	InChI=1S/C14H22/c1-10(2)12-8-7-11(3)14-6-4-5-13(14)9-12/h13H,4-9H2,1-3H3/t13-/m1/
<b>InchiKey:</b>	JAEWQJLMJUBAKM-CYBMUJFWSA-N
<b>Formula:</b>	C14H22
<b>SMILES:</b>	CC(C)=C1CCC(C)=C2CCCC2C1
<b>Mol. weight [g/mol]:</b>	190.32

## Physical Properties

Property code	Value	Unit	Source
gf	195.42	kJ/mol	Joback Method
hf	-89.91	kJ/mol	Joback Method
hfus	18.27	kJ/mol	Joback Method
hvap	50.06	kJ/mol	Joback Method
log10ws	-4.94		Crippen Method
logp	4.623		Crippen Method
mcvol	177.800	ml/mol	McGowan Method
pc	2206.22	kPa	Joback Method
rinsol	1515.00		NIST Webbook
tb	570.59	K	Joback Method
tc	794.04	K	Joback Method
tf	295.78	K	Joback Method
vc	0.672	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	450.32	J/mol×K	570.59	Joback Method
cpg	471.64	J/mol×K	607.83	Joback Method
cpg	491.66	J/mol×K	645.07	Joback Method
cpg	510.43	J/mol×K	682.32	Joback Method
cpg	528.03	J/mol×K	719.56	Joback Method
cpg	544.53	J/mol×K	756.80	Joback Method
cpg	559.99	J/mol×K	794.04	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R590539&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R590539&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>

# 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>rinpola:</b>	Non-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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