

# «beta»-Guajene

<b>Other names:</b>	«beta»-Guajene
<b>Inchi:</b>	InChI=1S/C15H24/c1-10(2)13-7-5-11(3)14-8-6-12(4)15(14)9-13/h11,13-15H,1,4-9H2,2-3H
<b>InchiKey:</b>	LCJVFGFKVDTMSS-WSYDAFBYSA-N
<b>Formula:</b>	C15H24
<b>SMILES:</b>	<chem>C=C(C)C1CCC(C)C2CCC(=C)C2C1</chem>
<b>Mol. weight [g/mol]:</b>	204.35

## Physical Properties

Property code	Value	Unit	Source
gf	265.47	kJ/mol	Joback Method
hf	-72.77	kJ/mol	Joback Method
hfus	20.87	kJ/mol	Joback Method
hvap	48.45	kJ/mol	Joback Method
log10ws	-4.63		Crippen Method
logp	4.581		Crippen Method
mcvol	191.890	ml/mol	McGowan Method
pc	1893.65	kPa	Joback Method
rinpol	1500.00		NIST Webbook
rinpol	1482.00		NIST Webbook
rinpol	1446.00		NIST Webbook
rinpol	1482.00		NIST Webbook
rinpol	1500.00		NIST Webbook
ripol	1658.00		NIST Webbook
tb	559.54	K	Joback Method
tc	774.32	K	Joback Method
tf	270.09	K	Joback Method
vc	0.722	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	499.46	J/mol×K	559.54	Joback Method
cpg	523.74	J/mol×K	595.34	Joback Method
cpg	546.61	J/mol×K	631.13	Joback Method

cpg	568.13	J/mol×K	666.93	Joback Method
cpg	588.34	J/mol×K	702.73	Joback Method
cpg	607.30	J/mol×K	738.53	Joback Method
cpg	625.06	J/mol×K	774.32	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=R127463&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R127463&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>

## 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>rinpol:</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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