

# «gamma»-Humulene

**Inchi:** InChI=1S/C15H24/c1-13-7-5-8-14(2)10-12-15(3,4)11-6-9-13/h6,9-11H,5,7-8,12H2,1-4H3  
**InchiKey:** QBNFBHXQESNSNP-KNAPRBDCSA-N  
**Formula:** C15H24  
**SMILES:** CC1=CC=CC(C)(C)CC=C(C)CCC1  
**Mol. weight [g/mol]:** 204.35

## Physical Properties

Property code	Value	Unit	Source
gf	104.50	kJ/mol	Joback Method
hf	-163.77	kJ/mol	Joback Method
hfus	12.53	kJ/mol	Joback Method
hvap	51.32	kJ/mol	Joback Method
log10ws	-5.32		Crippen Method
logp	5.035		Crippen Method
mcvol	198.450	ml/mol	McGowan Method
pc	2056.76	kPa	Joback Method
rinpol	1478.00		NIST Webbook
rinpol	1479.00		NIST Webbook
rinpol	1464.00		NIST Webbook
rinpol	1481.00		NIST Webbook
rinpol	1480.00		NIST Webbook
rinpol	1471.00		NIST Webbook
rinpol	1476.00		NIST Webbook
rinpol	1453.00		NIST Webbook
rinpol	1485.00		NIST Webbook
ripol	1716.00		NIST Webbook
ripol	1698.00		NIST Webbook
ripol	1719.00		NIST Webbook
ripol	1713.00		NIST Webbook
tb	591.18	K	Joback Method
tc	827.88	K	Joback Method
tf	299.81	K	Joback Method
vc	0.725	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	500.93	J/mol×K	591.18	Joback Method
cpg	524.87	J/mol×K	630.63	Joback Method
cpg	547.39	J/mol×K	670.08	Joback Method
cpg	568.60	J/mol×K	709.53	Joback Method
cpg	588.61	J/mol×K	748.98	Joback Method
cpg	607.51	J/mol×K	788.43	Joback Method
cpg	625.41	J/mol×K	827.88	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R190619&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R190619&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>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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