

# «beta»-Cuprenene

<b>Inchi:</b>	InChI=1S/C15H24/c1-12-6-8-13(9-7-12)15(4)11-5-10-14(15,2)3/h6,8,13H,1,5,7,9-11H2,2
<b>InchiKey:</b>	QPXHUMFBJLASJO-AWKYBWMHSA-N
<b>Formula:</b>	C15H24
<b>SMILES:</b>	C=C1C=CC(C2(C)CCCC2(C)C)CC1
<b>Mol. weight [g/mol]:</b>	204.35

## Physical Properties

Property code	Value	Unit	Source
gf	200.77	kJ/mol	Joback Method
hf	-85.97	kJ/mol	Joback Method
hfus	8.91	kJ/mol	Joback Method
hvap	47.51	kJ/mol	Joback Method
log10ws	-4.87		Crippen Method
logp	4.725		Crippen Method
mcvol	191.890	ml/mol	McGowan Method
pc	2141.36	kPa	Joback Method
ripol	1801.00		NIST Webbook
ripol	1801.00		NIST Webbook
ripol	1803.00		NIST Webbook
ripol	1801.00		NIST Webbook
ripol	1803.00		NIST Webbook
tb	571.56	K	Joback Method
tc	805.60	K	Joback Method
tf	335.09	K	Joback Method
vc	0.715	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	499.65	J/molxK	571.56	Joback Method
cpg	523.46	J/molxK	610.57	Joback Method
cpg	545.70	J/molxK	649.57	Joback Method
cpg	566.64	J/molxK	688.58	Joback Method
cpg	586.56	J/molxK	727.59	Joback Method

cpg	605.72	J/mol×K	766.59	Joback Method
cpg	624.40	J/mol×K	805.60	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=R331974&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R331974&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>

## 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>	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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