

# Cyclosativene

**Inchi:** InChI=1S/C15H24/c1-8(2)9-5-6-14(3)10-7-11-13(12(9)10)15(11,14)4/h8-13H,5-7H2,1-4H  
**InchiKey:** XBWACJDEQIZTPR-UHFFFAOYSA-N  
**Formula:** C15H24  
**SMILES:** CC(C)C1CCC2(C)C3CC4C(C13)C42C  
**Mol. weight [g/mol]:** 204.35

## Physical Properties

Property code	Value	Unit	Source
gf	306.07	kJ/mol	Joback Method
hf	-85.23	kJ/mol	Joback Method
hfus	18.44	kJ/mol	Joback Method
hvap	44.67	kJ/mol	Joback Method
log10ws	-3.75		Crippen Method
logp	3.961		Crippen Method
mcvol	178.770	ml/mol	McGowan Method
pc	2086.93	kPa	Joback Method
rinpol	1358.00		NIST Webbook
rinpol	1364.00		NIST Webbook
rinpol	1357.00		NIST Webbook
rinpol	1371.00		NIST Webbook
rinpol	1371.00		NIST Webbook
rinpol	1371.00		NIST Webbook
rinpol	1363.00		NIST Webbook
rinpol	1357.00		NIST Webbook
rinpol	1371.00		NIST Webbook
rinpol	1368.00		NIST Webbook
rinpol	1360.00		NIST Webbook
rinpol	1368.00		NIST Webbook
rinpol	1371.00		NIST Webbook
ripol	1492.00		NIST Webbook
ripol	1492.00		NIST Webbook
tb	547.05	K	Joback Method
tc	759.24	K	Joback Method
tf	357.69	K	Joback Method
vc	0.707	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	503.57	J/mol×K	547.05	Joback Method
cpg	526.02	J/mol×K	582.42	Joback Method
cpg	546.77	J/mol×K	617.78	Joback Method
cpg	566.10	J/mol×K	653.15	Joback Method
cpg	584.32	J/mol×K	688.51	Joback Method
cpg	601.73	J/mol×K	723.88	Joback Method
cpg	618.64	J/mol×K	759.24	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R600334&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R600334&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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