

# Calamenene

<b>Other names:</b>	cis-Calamenene (Z)-Calamenene cis-Calamene calamenene, cis
<b>Inchi:</b>	InChI=1S/C15H22/c1-10(2)13-8-6-12(4)14-7-5-11(3)9-15(13)14/h5,7,9-10,12-13H,6,8H2
<b>InchiKey:</b>	PGTJIOWQJWHTJJ-STQMWFEEESA-N
<b>Formula:</b>	C15H22
<b>SMILES:</b>	<chem>Cc1ccc2c(c1)C(C(C)C)CCC2C</chem>
<b>Mol. weight [g/mol]:</b>	202.34
<b>CAS:</b>	72937-55-4

## Physical Properties

Property code	Value	Unit	Source
gf	207.07	kJ/mol	Joback Method
hf	-98.32	kJ/mol	Joback Method
hfus	21.45	kJ/mol	Joback Method
hvap	51.97	kJ/mol	Joback Method
log10ws	-4.81		Crippen Method
logp	4.632		Crippen Method
mcvol	187.590	ml/mol	McGowan Method
pc	2016.32	kPa	Joback Method
rinsol	1531.40		NIST Webbook
tb	585.14	K	Joback Method
tc	803.63	K	Joback Method
tf	305.45	K	Joback Method
vc	0.710	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	482.92	J/mol×K	585.14	Joback Method
cpg	503.81	J/mol×K	621.55	Joback Method
cpg	523.46	J/mol×K	657.97	Joback Method
cpg	541.93	J/mol×K	694.38	Joback Method

cpg	559.26	J/mol×K	730.80	Joback Method
cpg	575.50	J/mol×K	767.21	Joback Method
cpg	590.72	J/mol×K	803.63	Joback Method
dvisc	0.0018212	Paxs	305.45	Joback Method
dvisc	0.0011104	Paxs	352.07	Joback Method
dvisc	0.0007601	Paxs	398.68	Joback Method
dvisc	0.0005632	Paxs	445.30	Joback Method
dvisc	0.0004418	Paxs	491.91	Joback Method
dvisc	0.0003614	Paxs	538.52	Joback Method
dvisc	0.0003052	Paxs	585.14	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=C72937554&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C72937554&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>dvisc:</b>	Dynamic viscosity
<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>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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