

# Cadala-1(10),3,8-triene

<b>Inchi:</b>	InChI=1S/C15H22/c1-10(2)13-8-6-12(4)14-7-5-11(3)9-15(13)14/h5-8,10-11,13,15H,9H2,
<b>InchiKey:</b>	GHOAKWKHPKLCNK-UHFFFAOYSA-N
<b>Formula:</b>	C15H22
<b>SMILES:</b>	CC1=C2C=CC(C)CC2C(C(C)C)C=C1
<b>Mol. weight [g/mol]:</b>	202.34

## Physical Properties

Property code	Value	Unit	Source
gf	208.99	kJ/mol	Joback Method
hf	-107.19	kJ/mol	Joback Method
hfus	22.91	kJ/mol	Joback Method
hvap	51.00	kJ/mol	Joback Method
log10ws	-4.49		Crippen Method
logp	4.357		Crippen Method
mcvol	187.590	ml/mol	McGowan Method
pc	1984.12	kPa	Joback Method
rinsol	1562.00		NIST Webbook
tb	575.49	K	Joback Method
tc	792.92	K	Joback Method
tf	288.69	K	Joback Method
vc	0.709	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	483.31	J/molxK	575.49	Joback Method
cpg	505.01	J/molxK	611.73	Joback Method
cpg	525.43	J/molxK	647.97	Joback Method
cpg	544.60	J/molxK	684.21	Joback Method
cpg	562.58	J/molxK	720.45	Joback Method
cpg	579.43	J/molxK	756.68	Joback Method
cpg	595.19	J/molxK	792.92	Joback Method
dvisc	0.0017701	Paxs	288.69	Joback Method
dvisc	0.0011118	Paxs	336.49	Joback Method

dvisc	0.0007840	Paxs	384.29	Joback Method
dvisc	0.0005973	Paxs	432.09	Joback Method
dvisc	0.0004804	Paxs	479.89	Joback Method
dvisc	0.0004019	Paxs	527.69	Joback Method
dvisc	0.0003464	Paxs	575.49	Joback Method

## Sources

<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=U140056&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U140056&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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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