

# Bicyclononyl-3,3'-diene

<b>Inchi:</b>	InChI=1S/C18H30/c1-2-6-10-14-17(13-9-5-1)18-15-11-7-3-4-8-12-16-18/h5,7,9,11,17-18
<b>InchiKey:</b>	LALRZPDDDBKPQRU-TWHYHQCRSA-N
<b>Formula:</b>	C18H30
<b>SMILES:</b>	C1=CCC(C2CC=CCCCC2)CCCCC1
<b>Mol. weight [g/mol]:</b>	246.43

## Physical Properties

Property code	Value	Unit	Source
gf	136.90	kJ/mol	Joback Method
hf	-227.61	kJ/mol	Joback Method
hfus	15.89	kJ/mol	Joback Method
hvap	58.14	kJ/mol	Joback Method
log10ws	-6.37		Crippen Method
logp	6.040		Crippen Method
mcvol	234.160	ml/mol	McGowan Method
pc	1867.55	kPa	Joback Method
rinqol	1944.00		NIST Webbook
tb	674.28	K	Joback Method
tc	931.84	K	Joback Method
tf	287.78	K	Joback Method
vc	0.834	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	691.84	J/molxK	674.28	Joback Method
cpg	823.00	J/molxK	888.92	Joback Method
cpg	801.85	J/molxK	845.99	Joback Method
cpg	778.19	J/molxK	803.06	Joback Method
cpg	751.98	J/molxK	760.13	Joback Method
cpg	723.21	J/molxK	717.21	Joback Method
cpg	841.65	J/molxK	931.84	Joback Method
dvisc	0.0000244	Paxs	674.28	Joback Method
dvisc	0.0000412	Paxs	609.86	Joback Method

dvisc	0.0000788	Paxs	545.45	Joback Method
dvisc	0.0001790	Paxs	481.03	Joback Method
dvisc	0.0005242	Paxs	416.61	Joback Method
dvisc	0.0022738	Paxs	352.20	Joback Method
dvisc	0.0190268	Paxs	287.78	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R136477&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R136477&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>
<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>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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