

# (Z) 3,3'-Bis-(1-cyclohexenylidene)

<b>Inchi:</b>	InChI=1S/C12H16/c1-3-7-11(8-4-1)12-9-5-2-6-10-12/h3,5,7,9H,1-2,4,6,8,10H2/b12-11-
<b>InchiKey:</b>	IMTIYIKRBNQTTQ-QXMHVHEDSA-N
<b>Formula:</b>	C12H16
<b>SMILES:</b>	C1=CC(=C2C=CCCC2)CCC1
<b>Mol. weight [g/mol]:</b>	160.26
<b>CAS:</b>	132911-35-4

## Physical Properties

Property code	Value	Unit	Source
gf	185.10	kJ/mol	Joback Method
hf	92.50	kJ/mol	NIST Webbook
hfus	11.25	kJ/mol	Joback Method
hvap	45.98	kJ/mol	Joback Method
log10ws	-4.20		Crippen Method
logp	3.763		Crippen Method
mvol	145.320	ml/mol	McGowan Method
pc	3032.27	kPa	Joback Method
tb	529.84	K	Joback Method
tc	771.90	K	Joback Method
tf	275.56	K	Joback Method
vc	0.533	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	332.74	J/molxK	529.84	Joback Method
cpg	421.16	J/molxK	731.55	Joback Method
cpg	406.06	J/molxK	691.21	Joback Method
cpg	389.74	J/molxK	650.87	Joback Method
cpg	372.13	J/molxK	610.53	Joback Method
cpg	353.15	J/molxK	570.18	Joback Method
cpg	435.09	J/molxK	771.90	Joback Method
dvisc	0.0002014	Paxs	529.84	Joback Method
dvisc	0.0002703	Paxs	487.46	Joback Method

dvisc	0.0003838	Paxs	445.08	Joback Method
dvisc	0.0005867	Paxs	402.70	Joback Method
dvisc	0.0009908	Paxs	360.32	Joback Method
dvisc	0.0019244	Paxs	317.94	Joback Method
dvisc	0.0045845	Paxs	275.56	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=C132911354&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C132911354&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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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