

# Anti tricyclo[4.2.2.2(2,5)]dodeca-3,7-diene

<b>Inchi:</b>	InChI=1S/C12H16/c1-2-10-4-3-9(1)11-5-7-12(10)8-6-11/h1-2,5,7,9-12H,3-4,6,8H2/t9-,10-
<b>InchiKey:</b>	YPRIZWMBBCSCOSH-DDHJBXDOSA-N
<b>Formula:</b>	C12H16
<b>SMILES:</b>	<chem>C1=CC2CCC1C1C=CC2CC1</chem>
<b>Mol. weight [g/mol]:</b>	160.26
<b>CAS:</b>	69349-54-8

## Physical Properties

Property code	Value	Unit	Source
gf	248.32	kJ/mol	Joback Method
hf	143.00	kJ/mol	NIST Webbook
hfus	18.46	kJ/mol	Joback Method
hvap	42.84	kJ/mol	Joback Method
log10ws	-3.27		Crippen Method
logp	3.165		Crippen Method
mcvol	138.760	ml/mol	McGowan Method
pc	2871.95	kPa	Joback Method
tb	500.64	K	Joback Method
tc	729.20	K	Joback Method
tf	265.54	K	Joback Method
vc	0.525	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	334.98	J/molxK	500.64	Joback Method
cpg	356.96	J/molxK	538.73	Joback Method
cpg	377.33	J/molxK	576.83	Joback Method
cpg	396.21	J/molxK	614.92	Joback Method
cpg	413.70	J/molxK	653.02	Joback Method
cpg	429.90	J/molxK	691.11	Joback Method
cpg	444.92	J/molxK	729.20	Joback Method
dvisc	0.0011498	Paxs	265.54	Joback Method
dvisc	0.0010988	Paxs	304.72	Joback Method

dvisc	0.0010609	Paxs	343.91	Joback Method
dvisc	0.0010317	Paxs	383.09	Joback Method
dvisc	0.0010086	Paxs	422.27	Joback Method
dvisc	0.0009897	Paxs	461.46	Joback Method
dvisc	0.0009741	Paxs	500.64	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=C69349548&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C69349548&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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