

# Tricyclo[5.2.1.0(2.6)]deca-3,8-diene, 3,8-dimethyl

**Inchi:** InChI=1S/C12H16/c1-7-3-4-10-11-6-9(12(7)10)5-8(11)2/h3,5,9-12H,4,6H2,1-2H3  
**InchiKey:** XHZMIWJGOBUCCL-UHFFFAOYSA-N  
**Formula:** C12H16  
**SMILES:** CC1=CC2CC1C1CC=C(C)C21  
**Mol. weight [g/mol]:** 160.26

## Physical Properties

Property code	Value	Unit	Source
gf	253.26	kJ/mol	Joback Method
hf	-6.49	kJ/mol	Joback Method
hfus	21.88	kJ/mol	Joback Method
hvap	43.82	kJ/mol	Joback Method
log10ws	-3.27		Crippen Method
logp	3.165		Crippen Method
mcvol	138.760	ml/mol	McGowan Method
pc	2640.67	kPa	Joback Method
rinpol	1163.50		NIST Webbook
rinpol	1160.00		NIST Webbook
rinpol	1163.50		NIST Webbook
rinpol	1174.00		NIST Webbook
rinpol	1130.40		NIST Webbook
rinpol	1138.40		NIST Webbook
rinpol	1150.00		NIST Webbook
rinpol	1160.00		NIST Webbook
tb	502.06	K	Joback Method
tc	716.34	K	Joback Method
tf	297.62	K	Joback Method
vc	0.541	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	336.26	J/molxK	502.06	Joback Method
cpg	355.11	J/molxK	537.77	Joback Method

cpg	372.70	J/molxK	573.49	Joback Method
cpg	389.11	J/molxK	609.20	Joback Method
cpg	404.44	J/molxK	644.91	Joback Method
cpg	418.78	J/molxK	680.63	Joback Method
cpg	432.21	J/molxK	716.34	Joback Method
dvisc	0.0007477	Paxs	297.62	Joback Method
dvisc	0.0008690	Paxs	331.69	Joback Method
dvisc	0.0009820	Paxs	365.77	Joback Method
dvisc	0.0010869	Paxs	399.84	Joback Method
dvisc	0.0011839	Paxs	433.91	Joback Method
dvisc	0.0012737	Paxs	467.99	Joback Method
dvisc	0.0013567	Paxs	502.06	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R298129&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R298129&amp;Units=SI</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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