

# cis-Cyclodecene, 4-methyl

Inchi:	InChI=1S/C11H20/c1-11-9-7-5-3-2-4-6-8-10-11/h5,7,11H,2-4,6,8-10H2,1H3/b7-5-
InchiKey:	XQSQAURBBWEJFV-ALCCZGGFSA-N
Formula:	C11H20
SMILES:	CC1CC=CCCCCCC1
Mol. weight [g/mol]:	152.28

## Physical Properties

Property code	Value	Unit	Source
gf	47.75	kJ/mol	Joback Method
hf	-182.91	kJ/mol	Joback Method
hfus	8.90	kJ/mol	Joback Method
hvap	41.49	kJ/mol	Joback Method
log10ws	-3.93		Crippen Method
logp	3.923		Crippen Method
mcvol	150.690	ml/mol	McGowan Method
pc	2676.31	kPa	Joback Method
rinpol	1174.00		NIST Webbook
rinpol	1174.00		NIST Webbook
tb	486.87	K	Joback Method
tc	715.93	K	Joback Method
tf	207.79	K	Joback Method
vc	0.538	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	331.91	J/molxK	486.87	Joback Method
cpg	355.75	J/molxK	525.05	Joback Method
cpg	378.33	J/molxK	563.22	Joback Method
cpg	399.63	J/molxK	601.40	Joback Method
cpg	419.68	J/molxK	639.58	Joback Method
cpg	438.47	J/molxK	677.75	Joback Method
cpg	456.01	J/molxK	715.93	Joback Method
dvisc	0.0544216	Paxs	207.79	Joback Method

dvisc	0.0076555	Paxs	254.30	Joback Method
dvisc	0.0019751	Paxs	300.82	Joback Method
dvisc	0.0007325	Paxs	347.33	Joback Method
dvisc	0.0003434	Paxs	393.84	Joback Method
dvisc	0.0001889	Paxs	440.36	Joback Method
dvisc	0.0001165	Paxs	486.87	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R293500&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R293500&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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