

# Cyclodecene, 1-methyl-

<b>Inchi:</b>	InChI=1S/C11H20/c1-11-9-7-5-3-2-4-6-8-10-11/h9H,2-8,10H2,1H3
<b>InchiKey:</b>	AAZWWRDLCYIVAB-UHFFFAOYSA-N
<b>Formula:</b>	C11H20
<b>SMILES:</b>	CC1=CCCCCCCCC1
<b>Mol. weight [g/mol]:</b>	152.28
<b>CAS:</b>	66633-38-3

## Physical Properties

Property code	Value	Unit	Source
gf	45.83	kJ/mol	Joback Method
hf	-174.04	kJ/mol	Joback Method
hfus	7.44	kJ/mol	Joback Method
hvap	42.46	kJ/mol	Joback Method
log10ws	-4.18		Crippen Method
logp	4.067		Crippen Method
mcvol	150.690	ml/mol	McGowan Method
pc	2726.86	kPa	Joback Method
rinpol	1195.00		NIST Webbook
rinpol	1200.00		NIST Webbook
rinpol	1200.00		NIST Webbook
rinpol	1200.00		NIST Webbook
tb	496.52	K	Joback Method
tc	727.05	K	Joback Method
tf	224.55	K	Joback Method
vc	0.539	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	333.31	J/molxK	496.52	Joback Method
cpg	435.83	J/molxK	688.63	Joback Method
cpg	417.77	J/molxK	650.21	Joback Method
cpg	398.49	J/molxK	611.79	Joback Method
cpg	378.00	J/molxK	573.36	Joback Method

cpg	356.27	J/molxK	534.94	Joback Method
cpg	452.68	J/molxK	727.05	Joback Method
dvisc	0.0001025	Paxs	496.52	Joback Method
dvisc	0.0001673	Paxs	451.19	Joback Method
dvisc	0.0003050	Paxs	405.86	Joback Method
dvisc	0.0006463	Paxs	360.53	Joback Method
dvisc	0.0017000	Paxs	315.21	Joback Method
dvisc	0.0061880	Paxs	269.88	Joback Method
dvisc	0.0379461	Paxs	224.55	Joback Method

## Sources

<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=C66633383&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C66633383&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>

## 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>hvac:</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>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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