

# (E,E)-1,6-Cyclodecadiene, 1-methyl

Inchi:	InChI=1S/C13H22/c1-13-11-9-7-5-3-2-4-6-8-10-12-13/h2-3,11H,4-10,12H2,1H3/b3-2+,13
InchiKey:	QYOLEDPEVIWBHX-SXBUOHTDSA-N
Formula:	C13H22
SMILES:	CC1=CCCCC=CCCCC1
Mol. weight [g/mol]:	178.31

## Physical Properties

Property code	Value	Unit	Source
gf	68.43	kJ/mol	Joback Method
hf	-169.86	kJ/mol	Joback Method
hfus	9.64	kJ/mol	Joback Method
hvap	47.55	kJ/mol	Joback Method
log10ws	-4.87		Crippen Method
logp	4.623		Crippen Method
mcvol	174.570	ml/mol	McGowan Method
pc	2448.32	kPa	Joback Method
rinpol	1178.00		NIST Webbook
tb	549.98	K	Joback Method
tc	791.73	K	Joback Method
tf	240.81	K	Joback Method
vc	0.622	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	417.50	J/molxK	549.98	Joback Method
cpg	529.38	J/molxK	751.44	Joback Method
cpg	510.11	J/molxK	711.15	Joback Method
cpg	489.28	J/molxK	670.86	Joback Method
cpg	466.90	J/molxK	630.56	Joback Method
cpg	442.97	J/molxK	590.27	Joback Method
cpg	547.09	J/molxK	791.73	Joback Method
dvisc	0.0000471	Paxs	549.98	Joback Method
dvisc	0.0000820	Paxs	498.45	Joback Method

dvisc	0.0001619	Paxs	446.92	Joback Method
dvisc	0.0003821	Paxs	395.39	Joback Method
dvisc	0.0011660	Paxs	343.87	Joback Method
dvisc	0.0052729	Paxs	292.34	Joback Method
dvisc	0.0454859	Paxs	240.81	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=R2723&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R2723&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>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

Latest version available from:

<https://www.chemeo.com/cid/36-128-0/E-E-1-6-Cyclodecadiene-1-methyl.pdf>

Generated by Cheméo on 2025-03-21 13:53:38.119595536 +0000 UTC m=+5773433.966521154.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.