

# trans-1-Methoxycyclopentadecene

<b>Inchi:</b>	InChI=1S/C16H30O/c1-17-16-14-12-10-8-6-4-2-3-5-7-9-11-13-15-16/h14H,2-13,15H2,1H
<b>InchiKey:</b>	PJMSFACMMWSXKJ-JQIJEIRASA-N
<b>Formula:</b>	C16H30O
<b>SMILES:</b>	COC1=CCCCCCCCCCCCC1
<b>Mol. weight [g/mol]:</b>	238.41
<b>CAS:</b>	78289-15-3

## Physical Properties

Property code	Value	Unit	Source
gf	-77.57	kJ/mol	Joback Method
hf	-440.26	kJ/mol	Joback Method
hfus	11.08	kJ/mol	Joback Method
hvap	56.86	kJ/mol	Joback Method
log10ws	-5.85		Crippen Method
logp	5.602		Crippen Method
mcvol	227.010	ml/mol	McGowan Method
pc	1911.91	kPa	Joback Method
tb	654.69	K	Joback Method
tc	900.11	K	Joback Method
tf	285.53	K	Joback Method
vc	0.797	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	643.26	J/molxK	654.69	Joback Method
cpg	673.00	J/molxK	695.59	Joback Method
cpg	700.59	J/molxK	736.50	Joback Method
cpg	725.98	J/molxK	777.40	Joback Method
cpg	749.12	J/molxK	818.30	Joback Method
cpg	769.96	J/molxK	859.21	Joback Method
cpg	788.45	J/molxK	900.11	Joback Method
dvisc	0.0249096	Paxs	285.53	Joback Method
dvisc	0.0019726	Paxs	347.06	Joback Method

dvisc	0.0003353	Paxs	408.58	Joback Method
dvisc	0.0000906	Paxs	470.11	Joback Method
dvisc	0.0000332	Paxs	531.64	Joback Method
dvisc	0.0000149	Paxs	593.16	Joback Method
dvisc	0.0000078	Paxs	654.69	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=C78289153&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C78289153&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>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>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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