

# cis,cis-2,12-tetradecadiene

<b>Inchi:</b>	InChI=1S/C14H26/c1-3-5-7-9-11-13-14-12-10-8-6-4-2/h3-6H,7-14H2,1-2H3/b5-3-,6-4-
<b>InchiKey:</b>	YXFRVWVBQDUOAT-GLIMQPGKSA-N
<b>Formula:</b>	C14H26
<b>SMILES:</b>	CC=CCCCCCCCC=CC
<b>Mol. weight [g/mol]:</b>	194.36

## Physical Properties

Property code	Value	Unit	Source
gf	227.44	kJ/mol	Joback Method
hf	-97.85	kJ/mol	Joback Method
hfus	32.42	kJ/mol	Joback Method
hvap	46.67	kJ/mol	Joback Method
log10ws	-5.39		Crippen Method
logp	5.259		Crippen Method
mvol	199.520	ml/mol	McGowan Method
pc	1655.15	kPa	Joback Method
rinpol	1409.00		NIST Webbook
rinpol	1409.00		NIST Webbook
tb	528.04	K	Joback Method
tc	700.73	K	Joback Method
tf	237.38	K	Joback Method
vc	0.779	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	471.63	J/molxK	528.04	Joback Method
cpg	489.26	J/molxK	556.82	Joback Method
cpg	506.08	J/molxK	585.60	Joback Method
cpg	522.13	J/molxK	614.39	Joback Method
cpg	537.44	J/molxK	643.17	Joback Method
cpg	552.06	J/molxK	671.95	Joback Method
cpg	566.01	J/molxK	700.73	Joback Method
dvisc	0.0051467	Paxs	237.38	Joback Method

dvisc	0.0016643	Paxs	285.82	Joback Method
dvisc	0.0007466	Paxs	334.27	Joback Method
dvisc	0.0004102	Paxs	382.71	Joback Method
dvisc	0.0002579	Paxs	431.15	Joback Method
dvisc	0.0001781	Paxs	479.60	Joback Method
dvisc	0.0001316	Paxs	528.04	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=R133903&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R133903&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>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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<https://www.chemeo.com/cid/52-785-3/cis-cis-2-12-tetradecadiene.pdf>

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