

# 4-Tetradecene, (Z)-

<b>Other names:</b>	(4Z)-4-Tetradecene cis-4-Tetradecene (Z)-4-Tetradecene
<b>Inchi:</b>	InChI=1S/C14H28/c1-3-5-7-9-11-13-14-12-10-8-6-4-2/h7,9H,3-6,8,10-14H2,1-2H3/b9-7-
<b>InchiKey:</b>	XEIYDTUADLFFTM-CLFYBASSA-N
<b>Formula:</b>	C14H28
<b>SMILES:</b>	CCCC=CCCCCCCCC
<b>Mol. weight [g/mol]:</b>	196.37
<b>CAS:</b>	41446-65-5

## Physical Properties

Property code	Value	Unit	Source
gf	147.22	kJ/mol	Joback Method
hf	-215.07	kJ/mol	Joback Method
hfus	32.22	kJ/mol	Joback Method
hvap	46.72	kJ/mol	Joback Method
log10ws	-5.54		Crippen Method
logp	5.483		Crippen Method
mcvol	203.820	ml/mol	McGowan Method
pc	1587.28	kPa	Joback Method
ripol	1392.00		NIST Webbook
ripol	1378.00		NIST Webbook
ripol	1380.00		NIST Webbook
ripol	1389.00		NIST Webbook
ripol	1378.00		NIST Webbook
ripol	1378.00		NIST Webbook
ripol	1376.80		NIST Webbook
ripol	1424.00		NIST Webbook
ripol	1449.00		NIST Webbook
ripol	1439.00		NIST Webbook
ripol	1440.00		NIST Webbook
ripol	1441.00		NIST Webbook
ripol	1443.00		NIST Webbook
ripol	1444.00		NIST Webbook
ripol	1422.00		NIST Webbook
ripol	1430.00		NIST Webbook
ripol	1430.00		NIST Webbook

ripol	1431.00		NIST Webbook
ripol	1447.00		NIST Webbook
ripol	1431.00		NIST Webbook
ripol	1431.00		NIST Webbook
ripol	1444.00		NIST Webbook
ripol	1425.00		NIST Webbook
ripol	1433.00		NIST Webbook
ripol	1433.00		NIST Webbook
ripol	1422.00		NIST Webbook
ripol	1430.20		NIST Webbook
ripol	1424.40		NIST Webbook
ripol	1431.10		NIST Webbook
ripol	1419.40		NIST Webbook
ripol	1422.50		NIST Webbook
ripol	1430.10		NIST Webbook
ripol	1431.10		NIST Webbook
ripol	1422.30		NIST Webbook
ripol	1424.40		NIST Webbook
ripol	1431.10		NIST Webbook
ripol	1432.00		NIST Webbook
ripol	1443.00		NIST Webbook
ripol	1443.00		NIST Webbook
ripol	1447.00		NIST Webbook
ripol	1449.00		NIST Webbook
ripol	1434.30		NIST Webbook
ripol	1432.90		NIST Webbook
ripol	1427.00		NIST Webbook
ripol	1445.00		NIST Webbook
ripol	1432.00		NIST Webbook
ripol	1445.00		NIST Webbook
tb	523.88	K	Joback Method
tc	689.82	K	Joback Method
tf	242.46	K	Joback Method
vc	0.799	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	488.90	J/mol×K	523.88	Joback Method
cpg	506.77	J/mol×K	551.54	Joback Method
cpg	523.90	J/mol×K	579.19	Joback Method

cpg	540.31	J/molxK	606.85	Joback Method
cpg	556.03	J/molxK	634.51	Joback Method
cpg	571.08	J/molxK	662.16	Joback Method
cpg	585.50	J/molxK	689.82	Joback Method
dvisc	0.0054364	Paxs	242.46	Joback Method
dvisc	0.0018593	Paxs	289.36	Joback Method
dvisc	0.0008577	Paxs	336.27	Joback Method
dvisc	0.0004782	Paxs	383.17	Joback Method
dvisc	0.0003029	Paxs	430.07	Joback Method
dvisc	0.0002098	Paxs	476.98	Joback Method
dvisc	0.0001553	Paxs	523.88	Joback Method

## Sources

<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=C41446655&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C41446655&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>ripol:</b>	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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