

# trans-2,cis-4-octadiene

<b>Other names:</b>	trans,cis-2,4-octadiene 2,4-Octadiene, E,Z
<b>Inchi:</b>	InChI=1S/C8H14/c1-3-5-7-8-6-4-2/h3,5,7-8H,4,6H2,1-2H3/b5-3+,8-7-
<b>InchiKey:</b>	NZLCAHVLJPDRBL-AXDYLVROSA-N
<b>Formula:</b>	C8H14
<b>SMILES:</b>	CC=CC=CCCC
<b>Mol. weight [g/mol]:</b>	110.20

## Physical Properties

Property code	Value	Unit	Source
gf	176.92	kJ/mol	Joback Method
hf	25.99	kJ/mol	Joback Method
hfus	16.88	kJ/mol	Joback Method
hvap	33.32	kJ/mol	Joback Method
log10ws	-2.88		Crippen Method
logp	2.919		Crippen Method
mcvol	114.980	ml/mol	McGowan Method
pc	2823.32	kPa	Joback Method
rinpol	835.90		NIST Webbook
rinpol	841.40		NIST Webbook
rinpol	836.60		NIST Webbook
rinpol	835.00		NIST Webbook
rinpol	835.90		NIST Webbook
ripol	991.00		NIST Webbook
ripol	991.00		NIST Webbook
tb	390.76	K	Joback Method
tc	571.58	K	Joback Method
tf	169.76	K	Joback Method
vc	0.444	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	203.62	J/mol×K	390.76	Joback Method

cpg	261.13	J/molxK	541.44	Joback Method
cpg	250.79	J/molxK	511.30	Joback Method
cpg	239.90	J/molxK	481.17	Joback Method
cpg	228.43	J/molxK	451.03	Joback Method
cpg	216.35	J/molxK	420.90	Joback Method
cpg	270.94	J/molxK	571.58	Joback Method
dvisc	0.0001661	Paxs	390.76	Joback Method
dvisc	0.0002177	Paxs	353.93	Joback Method
dvisc	0.0003039	Paxs	317.09	Joback Method
dvisc	0.0004630	Paxs	280.26	Joback Method
dvisc	0.0008014	Paxs	243.43	Joback Method
dvisc	0.0016869	Paxs	206.59	Joback Method
dvisc	0.0049045	Paxs	169.76	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=R147487&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R147487&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>
<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>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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