

# trans-3,cis-6-nonadiene

Inchi:	InChI=1S/C9H16/c1-3-5-7-9-8-6-4-2/h5-8H,3-4,9H2,1-2H3/b7-5-,8-6+
InchiKey:	GQQQKUIHXIZOCM-CGXWXWIYSA-N
Formula:	C9H16
SMILES:	CCC=CCC=CCC
Mol. weight [g/mol]:	124.22

## Physical Properties

Property code	Value	Unit	Source
gf	185.34	kJ/mol	Joback Method
hf	5.35	kJ/mol	Joback Method
hfus	19.47	kJ/mol	Joback Method
hvap	35.54	kJ/mol	Joback Method
log10ws	-3.30		Crippen Method
logp	3.309		Crippen Method
mcvol	129.070	ml/mol	McGowan Method
pc	2555.92	kPa	Joback Method
rinpola	881.40		NIST Webbook
tb	413.64	K	Joback Method
tc	593.38	K	Joback Method
tf	181.03	K	Joback Method
vc	0.499	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	243.26	J/molxK	413.64	Joback Method
cpg	305.81	J/molxK	563.42	Joback Method
cpg	294.54	J/molxK	533.47	Joback Method
cpg	282.68	J/molxK	503.51	Joback Method
cpg	270.20	J/molxK	473.55	Joback Method
cpg	257.07	J/molxK	443.60	Joback Method
cpg	316.52	J/molxK	593.38	Joback Method
dvisc	0.0001668	Paxs	413.64	Joback Method
dvisc	0.0002202	Paxs	374.87	Joback Method

dvisc	0.0003099	Paxs	336.10	Joback Method
dvisc	0.0004768	Paxs	297.33	Joback Method
dvisc	0.0008346	Paxs	258.57	Joback Method
dvisc	0.0017800	Paxs	219.80	Joback Method
dvisc	0.0052511	Paxs	181.03	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R250192&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R250192&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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