

# 2-nonadecene (E)

Inchi:	InChI=1S/C19H38/c1-3-5-7-9-11-13-15-17-19-18-16-14-12-10-8-6-4-2/h3,5H,4,6-19H2,1
InchiKey:	HANVOGLDKHFHBY-HWKANZROSA-N
Formula:	C19H38
SMILES:	CC=CCCCCCCCCCCCCCCCC
Mol. weight [g/mol]:	266.50

## Physical Properties

Property code	Value	Unit	Source
gf	189.32	kJ/mol	Joback Method
hf	-318.27	kJ/mol	Joback Method
hfus	45.17	kJ/mol	Joback Method
hvap	57.85	kJ/mol	Joback Method
log10ws	-7.63		Crippen Method
logp	7.434		Crippen Method
mvol	274.270	ml/mol	McGowan Method
pc	1118.56	kPa	Joback Method
rinpol	1906.00		NIST Webbook
rinpol	1906.00		NIST Webbook
tb	638.28	K	Joback Method
tc	802.08	K	Joback Method
tf	298.81	K	Joback Method
vc	1.079	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	761.42	J/molxK	638.28	Joback Method
cpg	853.91	J/molxK	774.78	Joback Method
cpg	836.98	J/molxK	747.48	Joback Method
cpg	819.30	J/molxK	720.18	Joback Method
cpg	800.83	J/molxK	692.88	Joback Method
cpg	781.55	J/molxK	665.58	Joback Method
cpg	870.11	J/molxK	802.08	Joback Method
dvisc	0.0000941	Paxs	638.28	Joback Method

dvisc	0.0001291	Paxs	581.70	Joback Method
dvisc	0.0001896	Paxs	525.12	Joback Method
dvisc	0.0003055	Paxs	468.54	Joback Method
dvisc	0.0005614	Paxs	411.97	Joback Method
dvisc	0.0012522	Paxs	355.39	Joback Method
dvisc	0.0037841	Paxs	298.81	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=R205835&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R205835&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>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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