

# 9,12-Octadecadiene

<b>Inchi:</b>	InChI=1S/C18H34/c1-3-5-7-9-11-13-15-17-18-16-14-12-10-8-6-4-2/h11,13,17-18H,3-10,12H
<b>InchiKey:</b>	LWPSUELGGZBFZHK-BCTRXSSUSA-N
<b>Formula:</b>	C18H34
<b>SMILES:</b>	CCCCC=CCC=CCCCCCCC
<b>Mol. weight [g/mol]:</b>	250.46
<b>CAS:</b>	20389-49-5

## Physical Properties

Property code	Value	Unit	Source
gf	261.12	kJ/mol	Joback Method
hf	-180.41	kJ/mol	Joback Method
hfus	42.78	kJ/mol	Joback Method
hvap	55.58	kJ/mol	Joback Method
log10ws	-7.06		Crippen Method
logp	6.820		Crippen Method
mvol	255.880	ml/mol	McGowan Method
pc	1238.09	kPa	Joback Method
tb	619.56	K	Joback Method
tc	788.38	K	Joback Method
tf	282.46	K	Joback Method
vc	1.004	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	684.53	J/molxK	619.56	Joback Method
cpg	703.92	J/molxK	647.70	Joback Method
cpg	722.46	J/molxK	675.83	Joback Method
cpg	740.18	J/molxK	703.97	Joback Method
cpg	757.11	J/molxK	732.11	Joback Method
cpg	773.30	J/molxK	760.24	Joback Method
cpg	788.79	J/molxK	788.38	Joback Method
dvisc	0.0039210	Paxs	282.46	Joback Method
dvisc	0.0012416	Paxs	338.64	Joback Method

dvisc	0.0005454	Paxs	394.83	Joback Method
dvisc	0.0002941	Paxs	451.01	Joback Method
dvisc	0.0001818	Paxs	507.19	Joback Method
dvisc	0.0001237	Paxs	563.38	Joback Method
dvisc	0.0000903	Paxs	619.56	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C20389495&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C20389495&amp;Units=SI</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>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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