

# cis-1-Chloro-9-octadecene

<b>Other names:</b>	9-Octadecene, 1-chloro-, (9Z)- Oleyl Chloride 1-chloro-9-octadecene
<b>Inchi:</b>	InChI=1S/C18H35Cl/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19/h9-10H,2-8,11-12H
<b>InchiKey:</b>	IFABLCIRROMTAN-KTKRTIGZSA-N
<b>Formula:</b>	C18H35Cl
<b>SMILES:</b>	CCCCCCCCC=CCCCCCCCCI
<b>Mol. weight [g/mol]:</b>	286.92
<b>CAS:</b>	16507-61-2

## Physical Properties

Property code	Value	Unit	Source
gf	168.97	kJ/mol	Joback Method
hf	-313.37	kJ/mol	Joback Method
hfus	46.77	kJ/mol	Joback Method
hvap	60.00	kJ/mol	Joback Method
log10ws	-7.36		Crippen Method
logp	7.263		Crippen Method
mcvol	272.420	ml/mol	McGowan Method
pc	1164.04	kPa	Joback Method
ripol	2241.00		NIST Webbook
ripol	2241.00		NIST Webbook
tb	652.83	K	Joback Method
tc	821.45	K	Joback Method
tf	317.46	K	Joback Method
vc	1.073	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	742.15	J/mol×K	652.83	Joback Method
cpg	828.77	J/mol×K	793.35	Joback Method
cpg	812.98	J/mol×K	765.25	Joback Method
cpg	796.46	J/mol×K	737.14	Joback Method

cpg	779.17	J/mol×K	709.04	Joback Method
cpg	761.08	J/mol×K	680.93	Joback Method
cpg	843.86	J/mol×K	821.45	Joback Method
dvisc	0.0000964	Paxs	652.83	Joback Method
dvisc	0.0001313	Paxs	596.93	Joback Method
dvisc	0.0001905	Paxs	541.04	Joback Method
dvisc	0.0003014	Paxs	485.14	Joback Method
dvisc	0.0005371	Paxs	429.25	Joback Method
dvisc	0.0011380	Paxs	373.36	Joback Method
dvisc	0.0031411	Paxs	317.46	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=C16507612&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16507612&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>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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