

# cis-2-Methyl-7-octadecene

<b>Other names:</b>	Disparlure olefin (7Z)-2-Methyl-7-octadecene 2-Methyl-7-octadecene, Z 2-Methyl-(Z)-7-octadecene 7-Octadecene, 2-methyl-, (7Z)-
<b>Inchi:</b>	InChI=1S/C19H38/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19(2)3/h13-14,19H,4-12,1
<b>InchiKey:</b>	XDBKLFODBADBED-YPKPFQOOSA-N
<b>Formula:</b>	C19H38
<b>SMILES:</b>	CCCCCCCCC=CCCCC(C)C
<b>Mol. weight [g/mol]:</b>	266.50
<b>CAS:</b>	35354-39-3

## Physical Properties

Property code	Value	Unit	Source
gf	186.88	kJ/mol	Joback Method
hf	-323.55	kJ/mol	Joback Method
hfus	41.65	kJ/mol	Joback Method
hvap	57.46	kJ/mol	Joback Method
log10ws	-7.39		Crippen Method
logp	7.290		Crippen Method
mcvol	274.270	ml/mol	McGowan Method
pc	1124.57	kPa	Joback Method
rinpol	1842.00		NIST Webbook
rinpol	1926.00		NIST Webbook
tb	637.84	K	Joback Method
tc	803.72	K	Joback Method
tf	283.81	K	Joback Method
vc	1.073	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	761.75	J/molxK	637.84	Joback Method
cpg	782.18	J/molxK	665.49	Joback Method

cpg	801.73	J/molxK	693.13	Joback Method
cpg	820.43	J/molxK	720.78	Joback Method
cpg	838.32	J/molxK	748.43	Joback Method
cpg	855.44	J/molxK	776.07	Joback Method
cpg	871.81	J/molxK	803.72	Joback Method
dvisc	0.0054587	Paxs	283.81	Joback Method
dvisc	0.0015150	Paxs	342.81	Joback Method
dvisc	0.0006127	Paxs	401.82	Joback Method
dvisc	0.0003124	Paxs	460.82	Joback Method
dvisc	0.0001856	Paxs	519.83	Joback Method
dvisc	0.0001226	Paxs	578.84	Joback Method
dvisc	0.0000875	Paxs	637.84	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=C35354393&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C35354393&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>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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