

# Cis-9, trans-12 methyl linoleate

<b>Inchi:</b>	InChI=1S/C19H34O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19(20)21-2/h7-8,10-
<b>InchiKey:</b>	WTTJVINHCBCLGX-QEFCTBRHSA-N
<b>Formula:</b>	C19H34O2
<b>SMILES:</b>	CCCCC=CCC=CCCCCCCCC(=O)OC
<b>Mol. weight [g/mol]:</b>	294.47
<b>CAS:</b>	20221-26-5

## Physical Properties

Property code	Value	Unit	Source
gf	35.62	kJ/mol	Joback Method
hf	-445.85	kJ/mol	Joback Method
hfus	48.16	kJ/mol	Joback Method
hvap	66.96	kJ/mol	Joback Method
log10ws	-6.35		Crippen Method
logp	5.973		Crippen Method
mcvol	277.410	ml/mol	McGowan Method
pc	1195.65	kPa	Joback Method
tb	718.73	K	Joback Method
tc	896.01	K	Joback Method
tf	365.89	K	Joback Method
vc	1.083	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	803.45	J/molxK	718.73	Joback Method
cpg	821.70	J/molxK	748.28	Joback Method
cpg	839.08	J/molxK	777.82	Joback Method
cpg	855.63	J/molxK	807.37	Joback Method
cpg	871.40	J/molxK	836.92	Joback Method
cpg	886.41	J/molxK	866.47	Joback Method
cpg	900.71	J/molxK	896.01	Joback Method
dvisc	0.0016090	Paxs	365.89	Joback Method
dvisc	0.0006439	Paxs	424.70	Joback Method

dvisc	0.0003219	Paxs	483.50	Joback Method
dvisc	0.0001871	Paxs	542.31	Joback Method
dvisc	0.0001209	Paxs	601.12	Joback Method
dvisc	0.0000845	Paxs	659.92	Joback Method
dvisc	0.0000626	Paxs	718.73	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C20221265&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C20221265&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>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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