

# Tetrahydrofurfuryl oleate

<b>Other names:</b>	9-Octadecenoic acid (Z)-, (tetrahydro-3-furanyl)methyl ester (tetrahydro-3-furyl)methyl oleate
<b>Inchi:</b>	InChI=1S/C23H42O3/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-23(24)26-21-22-18-19
<b>InchiKey:</b>	NSMHOFMBVBYNJX-KTKRTIGZSA-N
<b>Formula:</b>	C23H42O3
<b>SMILES:</b>	CCCCCCCCC=CCCCCCCCC(=O)OCC1CCOC1
<b>Mol. weight [g/mol]:</b>	366.58
<b>CAS:</b>	150-81-2

## Physical Properties

Property code	Value	Unit	Source
gf	-60.49	kJ/mol	Joback Method
hf	-717.15	kJ/mol	Joback Method
hfus	60.23	kJ/mol	Joback Method
hvap	80.67	kJ/mol	Joback Method
log10ws	-6.91		Crippen Method
logp	6.604		Crippen Method
mvol	333.080	ml/mol	McGowan Method
pc	1003.35	kPa	Joback Method
tb	848.32	K	Joback Method
tc	1042.07	K	Joback Method
tf	453.52	K	Joback Method
vc	1.290	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1100.17	J/molxK	848.32	Joback Method
cpg	1120.45	J/molxK	880.61	Joback Method
cpg	1139.56	J/molxK	912.90	Joback Method
cpg	1157.55	J/molxK	945.20	Joback Method
cpg	1174.48	J/molxK	977.49	Joback Method
cpg	1190.39	J/molxK	1009.78	Joback Method
cpg	1205.36	J/molxK	1042.07	Joback Method

dvisc	0.0011199	Paxs	453.52	Joback Method
dvisc	0.0004900	Paxs	519.32	Joback Method
dvisc	0.0002582	Paxs	585.12	Joback Method
dvisc	0.0001549	Paxs	650.92	Joback Method
dvisc	0.0001020	Paxs	716.72	Joback Method
dvisc	0.0000721	Paxs	782.52	Joback Method
dvisc	0.0000538	Paxs	848.32	Joback Method

## Sources

<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=C150812&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C150812&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>

## 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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