

# 2-Methoxyethyl palmitate

<b>Inchi:</b>	InChI=1S/C19H38O3/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-19(20)22-18-17-21-2/h3-18
<b>InchiKey:</b>	XSZLSYXBQSOQJE-UHFFFAOYSA-N
<b>Formula:</b>	C19H38O3
<b>SMILES:</b>	CCCCCCCCCCCCCCCC(=O)OCCOC
<b>Mol. weight [g/mol]:</b>	314.50
<b>CAS:</b>	111-07-9

## Physical Properties

Property code	Value	Unit	Source
gf	-229.82	kJ/mol	Joback Method
hf	-812.51	kJ/mol	Joback Method
hfus	48.94	kJ/mol	Joback Method
hvap	69.45	kJ/mol	Joback Method
log10ws	-5.73		Crippen Method
logp	5.657		Crippen Method
mvol	291.880	ml/mol	McGowan Method
pc	1101.54	kPa	Joback Method
rinpol	2176.00		NIST Webbook
rinpol	2176.00		NIST Webbook
tb	732.83	K	Joback Method
tc	904.33	K	Joback Method
tf	398.28	K	Joback Method
vc	1.141	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	881.25	J/molxK	732.83	Joback Method
cpg	900.29	J/molxK	761.41	Joback Method
cpg	918.45	J/molxK	790.00	Joback Method
cpg	935.71	J/molxK	818.58	Joback Method
cpg	952.11	J/molxK	847.16	Joback Method
cpg	967.65	J/molxK	875.75	Joback Method
cpg	982.35	J/molxK	904.33	Joback Method

dvisc	0.0012403	Paxs	398.28	Joback Method
dvisc	0.0005581	Paxs	454.04	Joback Method
dvisc	0.0002991	Paxs	509.80	Joback Method
dvisc	0.0001812	Paxs	565.55	Joback Method
dvisc	0.0001202	Paxs	621.31	Joback Method
dvisc	0.0000853	Paxs	677.07	Joback Method
dvisc	0.0000637	Paxs	732.83	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=C111079&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C111079&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>mvol:</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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