

# Methyl 9-eicosenoate

<b>Other names:</b>	Gadoleic acid, methyl ester
<b>Inchi:</b>	InChI=1S/C21H40O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21(22)23-2/h1
<b>InchiKey:</b>	XEJYCWVISZMIDA-SEYXRHQNSA-N
<b>Formula:</b>	C21H40O2
<b>SMILES:</b>	CCCCCCCCCCC=CCCCCCCCC(=O)OC
<b>Mol. weight [g/mol]:</b>	324.54

## Physical Properties

Property code	Value	Unit	Source
gf	-27.76	kJ/mol	Joback Method
hf	-604.35	kJ/mol	Joback Method
hfus	53.13	kJ/mol	Joback Method
hvap	71.45	kJ/mol	Joback Method
log10ws	-7.33		Crippen Method
logp	6.977		Crippen Method
mvol	309.890	ml/mol	McGowan Method
pc	1016.83	kPa	Joback Method
rinpol	2287.00		NIST Webbook
rinpol	2287.00		NIST Webbook
tb	760.33	K	Joback Method
tc	936.69	K	Joback Method
tf	393.51	K	Joback Method
vc	1.216	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	945.68	J/mol×K	760.33	Joback Method
cpg	965.24	J/mol×K	789.72	Joback Method
cpg	983.86	J/mol×K	819.12	Joback Method
cpg	1001.56	J/mol×K	848.51	Joback Method
cpg	1018.40	J/mol×K	877.90	Joback Method
cpg	1034.38	J/mol×K	907.29	Joback Method
cpg	1049.56	J/mol×K	936.69	Joback Method

dvisc	0.0013987	Paxs	393.51	Joback Method
dvisc	0.0005689	Paxs	454.65	Joback Method
dvisc	0.0002864	Paxs	515.78	Joback Method
dvisc	0.0001668	Paxs	576.92	Joback Method
dvisc	0.0001077	Paxs	638.06	Joback Method
dvisc	0.0000751	Paxs	699.19	Joback Method
dvisc	0.0000555	Paxs	760.33	Joback Method

## Sources

<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>
<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=U336505&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U336505&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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