

# 15-Tetracosenoic acid, methyl ester

<b>Inchi:</b>	InChI=1S/C25H48O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25
<b>InchiKey:</b>	AINIZSBLAFHZCP-ZHACJKMWSA-N
<b>Formula:</b>	C25H48O2
<b>SMILES:</b>	CCCCCCCC=CCCCCCCCCCCCCCCC(=O)OC
<b>Mol. weight [g/mol]:</b>	380.65
<b>CAS:</b>	56554-33-7

## Physical Properties

Property code	Value	Unit	Source
gf	5.92	kJ/mol	Joback Method
hf	-686.91	kJ/mol	Joback Method
hfus	63.49	kJ/mol	Joback Method
hvap	80.36	kJ/mol	Joback Method
log10ws	-9.00		Crippen Method
logp	8.537		Crippen Method
mcvol	366.250	ml/mol	McGowan Method
pc	807.08	kPa	Joback Method
rinpol	2680.00		NIST Webbook
tb	851.85	K	Joback Method
tc	1042.93	K	Joback Method
tf	438.59	K	Joback Method
vc	1.440	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1195.11	J/molxK	851.85	Joback Method
cpg	1291.93	J/molxK	1011.08	Joback Method
cpg	1274.69	J/molxK	979.23	Joback Method
cpg	1256.44	J/molxK	947.39	Joback Method
cpg	1237.13	J/molxK	915.54	Joback Method
cpg	1216.70	J/molxK	883.70	Joback Method
cpg	1308.21	J/molxK	1042.93	Joback Method
dvisc	0.0000315	Paxs	851.85	Joback Method

dvisc	0.0000430	Paxs	782.97	Joback Method
dvisc	0.0000622	Paxs	714.10	Joback Method
dvisc	0.0000976	Paxs	645.22	Joback Method
dvisc	0.0001704	Paxs	576.34	Joback Method
dvisc	0.0003461	Paxs	507.47	Joback Method
dvisc	0.0008783	Paxs	438.59	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=C56554337&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C56554337&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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