

# Hexanoic acid, 3,5,5-trimethyl-, tetradec-6-yl ester

Inchi:	InChI=1S/C23H46O2/c1-7-9-11-12-13-15-17-21(16-14-10-8-2)25-22(24)18-20(3)19-23(4)
InchiKey:	LEMHGOXBZSTTES-UHFFFAOYSA-N
Formula:	C23H46O2
SMILES:	CCCCCCCC(CCCCC)OC(=O)CC(C)CC(C)(C)C
Mol. weight [g/mol]:	354.61

## Physical Properties

Property code	Value	Unit	Source
gf	-93.18	kJ/mol	Joback Method
hf	-782.16	kJ/mol	Joback Method
hfus	43.65	kJ/mol	Joback Method
hvap	73.88	kJ/mol	Joback Method
log10ws	-7.94		Crippen Method
logp	7.691		Crippen Method
mvol	342.370	ml/mol	McGowan Method
pc	893.73	kPa	Joback Method
rinpol	2151.00		NIST Webbook
rinpol	2151.00		NIST Webbook
tb	797.82	K	Joback Method
tc	980.78	K	Joback Method
tf	393.55	K	Joback Method
vc	1.325	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1095.14	J/molxK	797.82	Joback Method
cpg	1116.34	J/molxK	828.31	Joback Method
cpg	1136.41	J/molxK	858.81	Joback Method
cpg	1155.41	J/molxK	889.30	Joback Method
cpg	1173.36	J/molxK	919.79	Joback Method
cpg	1190.33	J/molxK	950.29	Joback Method
cpg	1206.35	J/molxK	980.78	Joback Method
dvisc	0.0019189	Paxs	393.55	Joback Method

dvisc	0.0005932	Paxs	460.93	Joback Method
dvisc	0.0002474	Paxs	528.31	Joback Method
dvisc	0.0001258	Paxs	595.68	Joback Method
dvisc	0.0000733	Paxs	663.06	Joback Method
dvisc	0.0000473	Paxs	730.44	Joback Method
dvisc	0.0000328	Paxs	797.82	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=U406270&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406270&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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