

# Hexanoic acid, 3,5,5-trimethyl-, pentadec-5-yl ester

Inchi:	InChI=1S/C24H48O2/c1-7-9-11-12-13-14-15-16-18-22(17-10-8-2)26-23(25)19-21(3)20-2
InchiKey:	FHEBLGZCEABWPU-UHFFFAOYSA-N
Formula:	C24H48O2
SMILES:	CCCCCCCCCCC(CCCC)OC(=O)CC(C)CC(C)(C)C
Mol. weight [g/mol]:	368.64

## Physical Properties

Property code	Value	Unit	Source
gf	-84.76	kJ/mol	Joback Method
hf	-802.80	kJ/mol	Joback Method
hfus	46.24	kJ/mol	Joback Method
hvap	76.10	kJ/mol	Joback Method
log10ws	-8.36		Crippen Method
logp	8.082		Crippen Method
mvol	356.460	ml/mol	McGowan Method
pc	844.56	kPa	Joback Method
rinpol	2258.00		NIST Webbook
rinpol	2258.00		NIST Webbook
tb	820.70	K	Joback Method
tc	1006.64	K	Joback Method
tf	404.82	K	Joback Method
vc	1.381	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1158.15	J/mol×K	820.70	Joback Method
cpg	1179.72	J/mol×K	851.69	Joback Method
cpg	1200.12	J/mol×K	882.68	Joback Method
cpg	1219.39	J/mol×K	913.67	Joback Method
cpg	1237.59	J/mol×K	944.66	Joback Method
cpg	1254.76	J/mol×K	975.65	Joback Method
cpg	1270.97	J/mol×K	1006.64	Joback Method
dvisc	0.0016496	Paxs	404.82	Joback Method

dvisc	0.0005093	Paxs	474.13	Joback Method
dvisc	0.0002122	Paxs	543.45	Joback Method
dvisc	0.0001078	Paxs	612.76	Joback Method
dvisc	0.0000628	Paxs	682.07	Joback Method
dvisc	0.0000404	Paxs	751.39	Joback Method
dvisc	0.0000281	Paxs	820.70	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=U406275&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406275&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>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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