

# Hexanoic acid, 3,5,5-trimethyl-, tridec-2-yl ester

Inchi:	InChI=1S/C22H44O2/c1-7-8-9-10-11-12-13-14-15-16-20(3)24-21(23)17-19(2)18-22(4,5)6
InchiKey:	NPOOIXIPKJMPFC-UHFFFAOYSA-N
Formula:	C22H44O2
SMILES:	CCCCCCCCCCCC(C)OC(=O)CC(C)CC(C)(C)C
Mol. weight [g/mol]:	340.58

## Physical Properties

Property code	Value	Unit	Source
gf	-101.60	kJ/mol	Joback Method
hf	-761.52	kJ/mol	Joback Method
hfus	41.06	kJ/mol	Joback Method
hvap	71.65	kJ/mol	Joback Method
log10ws	-7.52		Crippen Method
logp	7.301		Crippen Method
mvol	328.280	ml/mol	McGowan Method
pc	947.33	kPa	Joback Method
rinpol	2132.00		NIST Webbook
rinpol	2132.00		NIST Webbook
tb	774.94	K	Joback Method
tc	955.64	K	Joback Method
tf	382.28	K	Joback Method
vc	1.268	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1032.89	J/molxK	774.94	Joback Method
cpg	1053.76	J/molxK	805.06	Joback Method
cpg	1073.54	J/molxK	835.17	Joback Method
cpg	1092.27	J/molxK	865.29	Joback Method
cpg	1110.00	J/molxK	895.41	Joback Method
cpg	1126.77	J/molxK	925.53	Joback Method
cpg	1142.63	J/molxK	955.64	Joback Method
dvisc	0.0022274	Paxs	382.28	Joback Method

dvisc	0.0006896	Paxs	447.72	Joback Method
dvisc	0.0002879	Paxs	513.17	Joback Method
dvisc	0.0001465	Paxs	578.61	Joback Method
dvisc	0.0000855	Paxs	644.05	Joback Method
dvisc	0.0000551	Paxs	709.50	Joback Method
dvisc	0.0000383	Paxs	774.94	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U406261&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406261&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>
<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>

## 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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