

# Hexanoic acid, 3,5,5-trimethyl-, nonyl ester

**Inchi:** InChI=1S/C18H36O2/c1-6-7-8-9-10-11-12-13-20-17(19)14-16(2)15-18(3,4)5/h16H,6-15H  
**InchiKey:** ZZEAXDKLJQQOJD-UHFFFAOYSA-N  
**Formula:** C18H36O2  
**SMILES:** CCCCCCCCCOC(=O)CC(C)CC(C)(C)C  
**Mol. weight [g/mol]:** 284.48

## Physical Properties

Property code	Value	Unit	Source
gf	-132.84	kJ/mol	Joback Method
hf	-673.68	kJ/mol	Joback Method
hfus	34.23	kJ/mol	Joback Method
hvap	63.13	kJ/mol	Joback Method
log10ws	-5.74		Crippen Method
logp	5.743		Crippen Method
mvol	271.920	ml/mol	McGowan Method
pc	1211.51	kPa	Joback Method
rinpol	1835.00		NIST Webbook
rinpol	1835.00		NIST Webbook
tb	683.86	K	Joback Method
tc	859.39	K	Joback Method
tf	352.20	K	Joback Method
vc	1.050	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	792.34	J/mol×K	683.86	Joback Method
cpg	880.47	J/mol×K	830.13	Joback Method
cpg	864.60	J/mol×K	800.88	Joback Method
cpg	847.88	J/mol×K	771.62	Joback Method
cpg	830.29	J/mol×K	742.37	Joback Method
cpg	811.79	J/mol×K	713.11	Joback Method
cpg	895.52	J/mol×K	859.39	Joback Method
dvisc	0.0000748	Paxs	683.86	Joback Method

dvisc	0.0001052	Paxs	628.58	Joback Method
dvisc	0.0001581	Paxs	573.31	Joback Method
dvisc	0.0002589	Paxs	518.03	Joback Method
dvisc	0.0004772	Paxs	462.75	Joback Method
dvisc	0.0010384	Paxs	407.48	Joback Method
dvisc	0.0028839	Paxs	352.20	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=U406060&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406060&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>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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