

# Hexanoic acid, 3,5,5-trimethyl-, 2-ethylhexyl ester

Inchi:	InChI=1S/C17H34O2/c1-7-9-10-15(8-2)13-19-16(18)11-14(3)12-17(4,5)6/h14-15H,7-13H
InchiKey:	LCVHZNSIAYNAGX-UHFFFAOYSA-N
Formula:	C17H34O2
SMILES:	CCCCC(CC)COC(=O)CC(C)CC(C)(C)C
Mol. weight [g/mol]:	270.45

## Physical Properties

Property code	Value	Unit	Source
gf	-143.70	kJ/mol	Joback Method
hf	-658.32	kJ/mol	Joback Method
hfus	28.11	kJ/mol	Joback Method
hvap	60.52	kJ/mol	Joback Method
log10ws	-5.08		Crippen Method
logp	5.208		Crippen Method
mcvol	257.830	ml/mol	McGowan Method
pc	1304.23	kPa	Joback Method
rinpol	1660.00		NIST Webbook
rinpol	1660.00		NIST Webbook
tb	660.54	K	Joback Method
tc	838.82	K	Joback Method
tf	325.93	K	Joback Method
vc	0.989	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	735.30	J/molxK	660.54	Joback Method
cpg	823.25	J/molxK	809.11	Joback Method
cpg	807.44	J/molxK	779.39	Joback Method
cpg	790.77	J/molxK	749.68	Joback Method
cpg	773.21	J/molxK	719.97	Joback Method
cpg	754.73	J/molxK	690.25	Joback Method
cpg	838.23	J/molxK	838.82	Joback Method
dvisc	0.0000799	Paxs	660.54	Joback Method

dvisc	0.0001148	Paxs	604.77	Joback Method
dvisc	0.0001776	Paxs	549.00	Joback Method
dvisc	0.0003031	Paxs	493.23	Joback Method
dvisc	0.0005928	Paxs	437.47	Joback Method
dvisc	0.0014107	Paxs	381.70	Joback Method
dvisc	0.0045159	Paxs	325.93	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U406822&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406822&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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