

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

Inchi:	InChI=1S/C10H20O2/c1-8(6-9(11)12-5)7-10(2,3)4/h8H,6-7H2,1-5H3
InchiKey:	DCPCIGBOUDWJEZ-UHFFFAOYSA-N
Formula:	C10H20O2
SMILES:	COC(=O)CC(C)CC(C)(C)C
Mol. weight [g/mol]:	172.26

## Physical Properties

Property code	Value	Unit	Source
gf	-200.20	kJ/mol	Joback Method
hf	-508.56	kJ/mol	Joback Method
hfus	13.51	kJ/mol	Joback Method
hvap	45.33	kJ/mol	Joback Method
log10ws	-2.39		Crippen Method
logp	2.622		Crippen Method
mcvol	159.200	ml/mol	McGowan Method
pc	2256.81	kPa	Joback Method
rinsol	1082.00		NIST Webbook
tb	500.82	K	Joback Method
tc	686.98	K	Joback Method
tf	262.04	K	Joback Method
vc	0.603	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	371.17	J/molxK	500.82	Joback Method
cpg	386.77	J/molxK	531.85	Joback Method
cpg	401.63	J/molxK	562.87	Joback Method
cpg	415.78	J/molxK	593.90	Joback Method
cpg	429.24	J/molxK	624.93	Joback Method
cpg	442.02	J/molxK	655.96	Joback Method
cpg	454.15	J/molxK	686.98	Joback Method
dvisc	0.0064596	Paxs	262.04	Joback Method
dvisc	0.0024849	Paxs	301.84	Joback Method

dvisc	0.0011942	Paxs	341.63	Joback Method
dvisc	0.0006687	Paxs	381.43	Joback Method
dvisc	0.0004178	Paxs	421.23	Joback Method
dvisc	0.0002831	Paxs	461.02	Joback Method
dvisc	0.0002041	Paxs	500.82	Joback Method

## Sources

<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=U406049&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406049&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>

## 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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