

# Hexanoic acid, 3,5,5-trimethyl-, undec-2-en-1-yl ester

<b>Inchi:</b>	InChI=1S/C20H38O2/c1-6-7-8-9-10-11-12-13-14-15-22-19(21)16-18(2)17-20(3,4)5/h13-1
<b>InchiKey:</b>	VTNXLHCQGNOCF-BUHFOSPRSA-N
<b>Formula:</b>	C20H38O2
<b>SMILES:</b>	CCCCCCCC=CCOC(=O)CC(C)CC(C)(C)C
<b>Mol. weight [g/mol]:</b>	310.51

## Physical Properties

Property code	Value	Unit	Source
gf	-35.78	kJ/mol	Joback Method
hf	-597.74	kJ/mol	Joback Method
hfus	39.61	kJ/mol	Joback Method
hvap	67.54	kJ/mol	Joback Method
log10ws	-6.43		Crippen Method
logp	6.299		Crippen Method
mvol	295.800	ml/mol	McGowan Method
pc	1101.54	kPa	Joback Method
rinpol	2034.00		NIST Webbook
rinpol	2034.00		NIST Webbook
tb	733.78	K	Joback Method
tc	914.28	K	Joback Method
tf	369.66	K	Joback Method
vc	1.143	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	887.48	J/molxK	733.78	Joback Method
cpg	907.07	J/molxK	763.86	Joback Method
cpg	925.67	J/molxK	793.95	Joback Method
cpg	943.33	J/molxK	824.03	Joback Method
cpg	960.09	J/molxK	854.12	Joback Method
cpg	975.99	J/molxK	884.20	Joback Method
cpg	991.09	J/molxK	914.28	Joback Method
dvisc	0.0021217	Paxs	369.66	Joback Method

dvisc	0.0007245	Paxs	430.35	Joback Method
dvisc	0.0003227	Paxs	491.03	Joback Method
dvisc	0.0001717	Paxs	551.72	Joback Method
dvisc	0.0001035	Paxs	612.41	Joback Method
dvisc	0.0000684	Paxs	673.09	Joback Method
dvisc	0.0000484	Paxs	733.78	Joback Method

## Sources

<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=U406932&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406932&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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

Latest version available from:

<https://www.chemeo.com/cid/87-503-7/Hexanoic-acid-3-5-5-trimethyl-undec-2-en-1-yl-ester.pdf>

Generated by Cheméo on 2024-04-28 16:25:48.050105777 +0000 UTC m=+16610796.970683089.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.