

# 2,4,4-trimethyl pentyl 3,5,5-trimethyl hexanoate

Inchi:	InChI=1S/C17H34O2/c1-13(10-16(3,4)5)9-15(18)19-12-14(2)11-17(6,7)8/h13-14H,9-12H
InchiKey:	FINRZAGSLZQHHT-UHFFFAOYSA-N
Formula:	C17H34O2
SMILES:	CC(COC(=O)CC(C)CC(C)(C)C)CC(C)(C)C
Mol. weight [g/mol]:	270.45

## Physical Properties

Property code	Value	Unit	Source
gf	-140.86	kJ/mol	Joback Method
hf	-667.07	kJ/mol	Joback Method
hfus	20.70	kJ/mol	Joback Method
hvap	59.22	kJ/mol	Joback Method
log10ws	-4.83		Crippen Method
logp	5.064		Crippen Method
mcvol	257.830	ml/mol	McGowan Method
pc	1322.31	kPa	Joback Method
ripol	1706.00		NIST Webbook
ripol	1706.00		NIST Webbook
tb	657.31	K	Joback Method
tc	843.23	K	Joback Method
tf	328.35	K	Joback Method
vc	0.978	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	737.56	J/molxK	657.31	Joback Method
cpg	757.68	J/molxK	688.30	Joback Method
cpg	776.71	J/molxK	719.28	Joback Method
cpg	794.71	J/molxK	750.27	Joback Method
cpg	811.72	J/molxK	781.25	Joback Method
cpg	827.79	J/molxK	812.24	Joback Method
cpg	842.98	J/molxK	843.23	Joback Method
dvisc	0.0051939	Paxs	328.35	Joback Method

dvisc	0.0015092	Paxs	383.18	Joback Method
dvisc	0.0005975	Paxs	438.00	Joback Method
dvisc	0.0002908	Paxs	492.83	Joback Method
dvisc	0.0001634	Paxs	547.66	Joback Method
dvisc	0.0001020	Paxs	602.48	Joback Method
dvisc	0.0000689	Paxs	657.31	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=R328022&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R328022&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>

## 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>h<sub>vap</sub>:</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>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>ripol:</b>	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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