

# Propanoic acid, 2-methyl-, 2-ethyl-3-hydroxyhexyl ester

Other names:	2-Ethyl-3-hydroxyhexyl 2-methylpropanoate
Inchi:	InChI=1S/C12H24O3/c1-5-7-11(13)10(6-2)8-15-12(14)9(3)4/h9-11,13H,5-8H2,1-4H3
InchiKey:	QQRIGCXMIPFTKR-UHFFFAOYSA-N
Formula:	C12H24O3
SMILES:	CCCC(O)C(CC)COC(=O)C(C)C
Mol. weight [g/mol]:	216.32
CAS:	74367-31-0

## Physical Properties

Property code	Value	Unit	Source
gf	-327.90	kJ/mol	Joback Method
hf	-703.88	kJ/mol	Joback Method
hfus	23.14	kJ/mol	Joback Method
hvap	66.98	kJ/mol	Joback Method
log10ws	-2.60		Crippen Method
logp	2.373		Crippen Method
mcvol	193.250	ml/mol	McGowan Method
pc	2051.17	kPa	Joback Method
rinpol	1373.00		NIST Webbook
rinpol	1375.00		NIST Webbook
rinpol	1373.00		NIST Webbook
rinpol	1375.00		NIST Webbook
rinpol	1373.00		NIST Webbook
rinpol	1373.00		NIST Webbook
tb	641.11	K	Joback Method
tc	814.54	K	Joback Method
tf	312.98	K	Joback Method
vc	0.733	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	531.49	J/molxK	641.11	Joback Method
cpg	545.81	J/molxK	670.01	Joback Method

cpg	559.48	J/mol×K	698.92	Joback Method
cpg	572.52	J/mol×K	727.82	Joback Method
cpg	584.94	J/mol×K	756.73	Joback Method
cpg	596.74	J/mol×K	785.63	Joback Method
cpg	607.94	J/mol×K	814.54	Joback Method
dvisc	0.0166774	Paxs	312.98	Joback Method
dvisc	0.0029545	Paxs	367.67	Joback Method
dvisc	0.0008194	Paxs	422.36	Joback Method
dvisc	0.0003049	Paxs	477.05	Joback Method
dvisc	0.0001391	Paxs	531.73	Joback Method
dvisc	0.0000734	Paxs	586.42	Joback Method
dvisc	0.0000432	Paxs	641.11	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=C74367310&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C74367310&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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