

# ethyl 5-hydroxyhexanoate

<b>Other names:</b>	Hexanoic acid, 5-hydroxy, ethyl ester
<b>Inchi:</b>	InChI=1S/C8H16O3/c1-3-11-8(10)6-4-5-7(2)9/h7,9H,3-6H2,1-2H3
<b>InchiKey:</b>	YUQVKXFPYUHIIF-UHFFFAOYSA-N
<b>Formula:</b>	C8H16O3
<b>SMILES:</b>	CCOC(=O)CCCC(C)O
<b>Mol. weight [g/mol]:</b>	160.21

## Physical Properties

Property code	Value	Unit	Source
gf	-356.70	kJ/mol	Joback Method
hf	-610.76	kJ/mol	Joback Method
hfus	19.83	kJ/mol	Joback Method
hvap	58.85	kJ/mol	Joback Method
log10ws	-1.41		Crippen Method
logp	1.101		Crippen Method
mcvol	136.890	ml/mol	McGowan Method
pc	2953.69	kPa	Joback Method
ripol	1872.00		NIST Webbook
ripol	1865.00		NIST Webbook
ripol	1848.00		NIST Webbook
ripol	1865.00		NIST Webbook
ripol	1848.00		NIST Webbook
tb	550.47	K	Joback Method
tc	722.09	K	Joback Method
tf	297.90	K	Joback Method
vc	0.520	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	333.69	J/molxK	550.47	Joback Method
cpg	344.69	J/molxK	579.07	Joback Method
cpg	355.26	J/molxK	607.68	Joback Method
cpg	365.40	J/molxK	636.28	Joback Method

cpg	375.11	J/molxK	664.88	Joback Method
cpg	384.41	J/molxK	693.49	Joback Method
cpg	393.29	J/molxK	722.09	Joback Method
dvisc	0.0141338	Paxs	297.90	Joback Method
dvisc	0.0037547	Paxs	340.00	Joback Method
dvisc	0.0013358	Paxs	382.09	Joback Method
dvisc	0.0005834	Paxs	424.19	Joback Method
dvisc	0.0002959	Paxs	466.28	Joback Method
dvisc	0.0001680	Paxs	508.38	Joback Method
dvisc	0.0001040	Paxs	550.47	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=R289195&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R289195&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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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