

# ethyl 5-hydroxyoctanoate

Inchi:	InChI=1S/C10H20O3/c1-3-6-9(11)7-5-8-10(12)13-4-2/h9,11H,3-8H2,1-2H3
InchiKey:	GIFGDAGRKYHDLN-UHFFFAOYSA-N
Formula:	C10H20O3
SMILES:	CCCC(O)CCCC(=O)OCC
Mol. weight [g/mol]:	188.26

## Physical Properties

Property code	Value	Unit	Source
gf	-339.86	kJ/mol	Joback Method
hf	-652.04	kJ/mol	Joback Method
hfus	25.01	kJ/mol	Joback Method
hvap	63.30	kJ/mol	Joback Method
log10ws	-2.25		Crippen Method
logp	1.881		Crippen Method
mcvol	165.070	ml/mol	McGowan Method
pc	2421.88	kPa	Joback Method
ripol	2030.00		NIST Webbook
tb	596.23	K	Joback Method
tc	765.82	K	Joback Method
tf	320.44	K	Joback Method
vc	0.632	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	428.91	J/molxK	596.23	Joback Method
cpg	486.60	J/molxK	737.56	Joback Method
cpg	476.07	J/molxK	709.29	Joback Method
cpg	465.05	J/molxK	681.03	Joback Method
cpg	453.52	J/molxK	652.76	Joback Method
cpg	441.47	J/molxK	624.50	Joback Method
cpg	496.65	J/molxK	765.82	Joback Method
dvisc	0.0000721	Paxs	596.23	Joback Method
dvisc	0.0001158	Paxs	550.27	Joback Method

dvisc	0.0002026	Paxs	504.30	Joback Method
dvisc	0.0003966	Paxs	458.34	Joback Method
dvisc	0.0009018	Paxs	412.37	Joback Method
dvisc	0.0025198	Paxs	366.41	Joback Method
dvisc	0.0094549	Paxs	320.44	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=R319494&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R319494&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>

## 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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