

# ethyl 2-methyl-2(Z)-pentenoate

<b>Inchi:</b>	InChI=1S/C8H14O2/c1-4-6-7(3)8(9)10-5-2/h6H,4-5H2,1-3H3/b7-6-
<b>InchiKey:</b>	HYQYCHQAUPHFKX-SREVYHEPSA-N
<b>Formula:</b>	C8H14O2
<b>SMILES:</b>	CCC=C(C)C(=O)OCC
<b>Mol. weight [g/mol]:</b>	142.20

## Physical Properties

Property code	Value	Unit	Source
gf	-145.77	kJ/mol	Joback Method
hf	-345.82	kJ/mol	Joback Method
hfus	18.16	kJ/mol	Joback Method
hvap	42.60	kJ/mol	Joback Method
log10ws	-1.89		Crippen Method
logp	1.906		Crippen Method
mcvol	126.720	ml/mol	McGowan Method
pc	2820.33	kPa	Joback Method
ripol	1149.00		NIST Webbook
ripol	1152.00		NIST Webbook
ripol	1149.00		NIST Webbook
tb	462.77	K	Joback Method
tc	649.52	K	Joback Method
tf	233.04	K	Joback Method
vc	0.488	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	263.21	J/molxK	462.77	Joback Method
cpg	275.29	J/molxK	493.90	Joback Method
cpg	286.87	J/molxK	525.02	Joback Method
cpg	297.94	J/molxK	556.15	Joback Method
cpg	308.52	J/molxK	587.27	Joback Method
cpg	318.63	J/molxK	618.40	Joback Method
cpg	328.27	J/molxK	649.52	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R315081&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R315081&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvp:</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>ripl:</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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