

# 2-Propenoic acid, 3-hydroxy-2-methyl-, ethyl ester

Inchi:	InChI=1S/C6H10O3/c1-3-9-6(8)5(2)4-7/h4,7H,3H2,1-2H3/b5-4+
InchiKey:	UPWSFLJBKRQKBD-SNAWJCMRSA-N
Formula:	C6H10O3
SMILES:	CCOC(=O)C(C)=CO
Mol. weight [g/mol]:	130.14
CAS:	54843-13-9

## Physical Properties

Property code	Value	Unit	Source
gf	-299.43	kJ/mol	Joback Method
hf	-456.77	kJ/mol	Joback Method
hfus	17.06	kJ/mol	Joback Method
hvap	54.82	kJ/mol	Joback Method
log10ws	-0.87		Crippen Method
logp	1.011		Crippen Method
mcvol	104.410	ml/mol	McGowan Method
pc	3911.14	kPa	Joback Method
tb	509.19	K	Joback Method
tc	690.58	K	Joback Method
tf	271.32	K	Joback Method
vc	0.396	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	227.19	J/molxK	509.19	Joback Method
cpg	235.61	J/molxK	539.42	Joback Method
cpg	243.67	J/molxK	569.65	Joback Method
cpg	251.38	J/molxK	599.88	Joback Method
cpg	258.74	J/molxK	630.12	Joback Method
cpg	265.76	J/molxK	660.35	Joback Method
cpg	272.45	J/molxK	690.58	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=C54843139&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C54843139&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>

# 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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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