

# Ethyl 3-methylbut-3-enyl carbonate

<b>Inchi:</b>	InChI=1S/C8H14O3/c1-4-10-8(9)11-6-5-7(2)3/h2,4-6H2,1,3H3
<b>InchiKey:</b>	RLYSLGVJBAZTLZ-UHFFFAOYSA-N
<b>Formula:</b>	C8H14O3
<b>SMILES:</b>	<chem>C=C(C)CCOC(=O)OCC</chem>
<b>Mol. weight [g/mol]:</b>	158.19

## Physical Properties

Property code	Value	Unit	Source
gf	-243.15	kJ/mol	Joback Method
hf	-469.83	kJ/mol	Joback Method
hfus	17.86	kJ/mol	Joback Method
hvap	44.38	kJ/mol	Joback Method
log10ws	-1.95		Crippen Method
logp	2.126		Crippen Method
mcvol	132.590	ml/mol	McGowan Method
pc	2741.15	kPa	Joback Method
rinpol	1051.00		NIST Webbook
tb	477.71	K	Joback Method
tc	658.91	K	Joback Method
tf	258.59	K	Joback Method
vc	0.507	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.44	J/molxK	477.71	Joback Method
cpg	298.06	J/molxK	507.91	Joback Method
cpg	309.29	J/molxK	538.11	Joback Method
cpg	320.12	J/molxK	568.31	Joback Method
cpg	330.54	J/molxK	598.51	Joback Method
cpg	340.55	J/molxK	628.71	Joback Method
cpg	350.15	J/molxK	658.91	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=U373780&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373780&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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>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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