

# Ethyl 2-ethylbutyl carbonate

<b>Inchi:</b>	InChI=1S/C9H18O3/c1-4-8(5-2)7-12-9(10)11-6-3/h8H,4-7H2,1-3H3
<b>InchiKey:</b>	ISMBFHVENLPVOM-UHFFFAOYSA-N
<b>Formula:</b>	C9H18O3
<b>SMILES:</b>	CCOC(=O)OCC(CC)CC
<b>Mol. weight [g/mol]:</b>	174.24

## Physical Properties

Property code	Value	Unit	Source
gf	-316.46	kJ/mol	Joback Method
hf	-611.39	kJ/mol	Joback Method
hfus	19.52	kJ/mol	Joback Method
hvap	46.81	kJ/mol	Joback Method
log10ws	-2.28		Crippen Method
logp	2.596		Crippen Method
mcvol	150.980	ml/mol	McGowan Method
pc	2391.19	kPa	Joback Method
rinpol	1133.00		NIST Webbook
tb	503.59	K	Joback Method
tc	680.25	K	Joback Method
tf	270.58	K	Joback Method
vc	0.576	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	348.25	J/molxK	503.59	Joback Method
cpg	410.59	J/molxK	650.81	Joback Method
cpg	399.06	J/molxK	621.36	Joback Method
cpg	387.05	J/molxK	591.92	Joback Method
cpg	374.58	J/molxK	562.48	Joback Method
cpg	361.64	J/molxK	533.03	Joback Method
cpg	421.65	J/molxK	680.25	Joback Method
dvisc	0.0001875	Paxs	503.59	Joback Method
dvisc	0.0002481	Paxs	464.75	Joback Method

dvisc	0.0003454	Paxs	425.92	Joback Method
dvisc	0.0005138	Paxs	387.09	Joback Method
dvisc	0.0008351	Paxs	348.25	Joback Method
dvisc	0.0015333	Paxs	309.41	Joback Method
dvisc	0.0033518	Paxs	270.58	Joback Method

## Sources

<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=U373797&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373797&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>

## 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>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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