

# 3,3-Dimethylbutan-2-yl ethyl carbonate

Inchi:	InChI=1S/C9H18O3/c1-6-11-8(10)12-7(2)9(3,4)5/h7H,6H2,1-5H3
InchiKey:	ZZYPHBZQAQJIHGH-UHFFFAOYSA-N
Formula:	C9H18O3
SMILES:	CCOC(=O)OC(C)C(C)(C)C
Mol. weight [g/mol]:	174.24

## Physical Properties

Property code	Value	Unit	Source
gf	-313.62	kJ/mol	Joback Method
hf	-620.14	kJ/mol	Joback Method
hfus	12.10	kJ/mol	Joback Method
hvap	45.51	kJ/mol	Joback Method
log10ws	-2.39		Crippen Method
logp	2.594		Crippen Method
mcvol	150.980	ml/mol	McGowan Method
pc	2436.25	kPa	Joback Method
rinsol	1034.00		NIST Webbook
tb	500.36	K	Joback Method
tc	687.53	K	Joback Method
tf	273.00	K	Joback Method
vc	0.565	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	351.24	J/molxK	500.36	Joback Method
cpg	365.66	J/molxK	531.56	Joback Method
cpg	379.45	J/molxK	562.75	Joback Method
cpg	392.62	J/molxK	593.95	Joback Method
cpg	405.18	J/molxK	625.14	Joback Method
cpg	417.14	J/molxK	656.34	Joback Method
cpg	428.51	J/molxK	687.53	Joback Method
dvisc	0.0044878	Paxs	273.00	Joback Method
dvisc	0.0018988	Paxs	310.89	Joback Method

dvisc	0.0009684	Paxs	348.79	Joback Method
dvisc	0.0005636	Paxs	386.68	Joback Method
dvisc	0.0003613	Paxs	424.57	Joback Method
dvisc	0.0002491	Paxs	462.47	Joback Method
dvisc	0.0001817	Paxs	500.36	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=U373799&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373799&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>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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