

# Ethyl 3-oxobutan-2-yl carbonate

<b>Inchi:</b>	InChI=1S/C7H12O4/c1-4-10-7(9)11-6(3)5(2)8/h6H,4H2,1-3H3
<b>InchiKey:</b>	DNVIKUFENZZNJD-UHFFFAOYSA-N
<b>Formula:</b>	C7H12O4
<b>SMILES:</b>	CCOC(=O)OC(C)C(C)=O
<b>Mol. weight [g/mol]:</b>	160.17

## Physical Properties

Property code	Value	Unit	Source
gf	-462.22	kJ/mol	Joback Method
hf	-682.69	kJ/mol	Joback Method
hfus	15.94	kJ/mol	Joback Method
hvap	49.10	kJ/mol	Joback Method
log10ws	-1.07		Crippen Method
logp	1.137		Crippen Method
mcvol	124.370	ml/mol	McGowan Method
pc	3121.00	kPa	Joback Method
rinpol	1038.00		NIST Webbook
rinpol	1038.00		NIST Webbook
tb	511.70	K	Joback Method
tc	701.34	K	Joback Method
tf	297.97	K	Joback Method
vc	0.469	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	278.59	J/molxK	511.70	Joback Method
cpg	328.25	J/molxK	669.73	Joback Method
cpg	319.13	J/molxK	638.13	Joback Method
cpg	309.59	J/molxK	606.52	Joback Method
cpg	299.65	J/molxK	574.91	Joback Method
cpg	289.32	J/molxK	543.31	Joback Method
cpg	336.95	J/molxK	701.34	Joback Method
dvisc	0.0002344	Paxs	511.70	Joback Method

dvisc	0.0003024	Paxs	476.08	Joback Method
dvisc	0.0004067	Paxs	440.46	Joback Method
dvisc	0.0005762	Paxs	404.84	Joback Method
dvisc	0.0008732	Paxs	369.21	Joback Method
dvisc	0.0014459	Paxs	333.59	Joback Method
dvisc	0.0027013	Paxs	297.97	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U373771&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373771&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>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>mccvol:</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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