

# Diallyl carbonate

<b>Other names:</b>	Carbonic acid, di-2-propenyl ester Allyl carbonate Carbonic acid, diallyl ester
<b>Inchi:</b>	InChI=1S/C7H10O3/c1-3-5-9-7(8)10-6-4-2/h3-4H,1-2,5-6H2
<b>InchiKey:</b>	JKJWYKGYGWOAHT-UHFFFAOYSA-N
<b>Formula:</b>	C7H10O3
<b>SMILES:</b>	C=CCOC(=O)OCC=C
<b>Mol. weight [g/mol]:</b>	142.15
<b>CAS:</b>	15022-08-9

## Physical Properties

Property code	Value	Unit	Source
gf	-155.18	kJ/mol	Joback Method
hf	-313.97	kJ/mol	Joback Method
hfus	15.30	kJ/mol	Joback Method
hvap	41.40	kJ/mol	Joback Method
log10ws	-1.39		Crippen Method
logp	1.512		Crippen Method
mcvol	114.200	ml/mol	McGowan Method
pc	3166.83	kPa	Joback Method
tb	451.63	K	Joback Method
tc	634.87	K	Joback Method
tf	259.52	K	Joback Method
vc	0.431	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	229.01	J/molxK	451.63	Joback Method
cpg	238.64	J/molxK	482.17	Joback Method
cpg	247.94	J/molxK	512.71	Joback Method
cpg	256.90	J/molxK	543.25	Joback Method
cpg	265.52	J/molxK	573.79	Joback Method
cpg	273.80	J/molxK	604.33	Joback Method

cpg	281.74	J/mol×K	634.87	Joback Method
dvisc	0.0020218	Paxs	259.52	Joback Method
dvisc	0.0011518	Paxs	291.54	Joback Method
dvisc	0.0007335	Paxs	323.56	Joback Method
dvisc	0.0005066	Paxs	355.57	Joback Method
dvisc	0.0003720	Paxs	387.59	Joback Method
dvisc	0.0002863	Paxs	419.61	Joback Method
dvisc	0.0002287	Paxs	451.63	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C15022089&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C15022089&amp;Units=SI</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>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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