

# 2,2-Dichloroethyl ethyl carbonate

Inchi:	InChI=1S/C5H8Cl2O3/c1-2-9-5(8)10-3-4(6)7/h4H,2-3H2,1H3
InchiKey:	WKLDGFBVDZTSMF-UHFFFAOYSA-N
Formula:	C5H8Cl2O3
SMILES:	CCOC(=O)OCC(Cl)Cl
Mol. weight [g/mol]:	187.02

## Physical Properties

Property code	Value	Unit	Source
gf	-374.00	kJ/mol	Joback Method
hf	-560.31	kJ/mol	Joback Method
hfus	17.55	kJ/mol	Joback Method
hvap	46.67	kJ/mol	Joback Method
log10ws	-1.76		Crippen Method
logp	1.963		Crippen Method
mcvol	119.100	ml/mol	McGowan Method
pc	3322.01	kPa	Joback Method
rinsol	1085.00		NIST Webbook
tb	486.93	K	Joback Method
tc	682.57	K	Joback Method
tf	285.34	K	Joback Method
vc	0.450	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	229.96	J/molxK	486.93	Joback Method
cpg	238.17	J/molxK	519.54	Joback Method
cpg	246.10	J/molxK	552.14	Joback Method
cpg	253.73	J/molxK	584.75	Joback Method
cpg	261.06	J/molxK	617.36	Joback Method
cpg	268.07	J/molxK	649.96	Joback Method
cpg	274.75	J/molxK	682.57	Joback Method
dvisc	0.0028486	Paxs	285.34	Joback Method
dvisc	0.0015479	Paxs	318.94	Joback Method

dvisc	0.0009448	Paxs	352.54	Joback Method
dvisc	0.0006284	Paxs	386.13	Joback Method
dvisc	0.0004462	Paxs	419.73	Joback Method
dvisc	0.0003333	Paxs	453.33	Joback Method
dvisc	0.0002592	Paxs	486.93	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U373783&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373783&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

Latest version available from:

<https://www.chemeo.com/cid/32-381-3/2-2-Dichloroethyl-ethyl-carbonate.pdf>

Generated by Cheméo on 2022-12-05 12:08:37.100136424 +0000 UTC m=+238479.837002119.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.