

# Carbonic acid, 2-methoxyethyl cyclohexylmethyl ester

Inchi:	InChI=1S/C11H20O4/c1-13-7-8-14-11(12)15-9-10-5-3-2-4-6-10/h10H,2-9H2,1H3
InchiKey:	ARLJOBDMKDKJM-UHFFFAOYSA-N
Formula:	C11H20O4
SMILES:	COCCOC(=O)OCC1CCCCC1
Mol. weight [g/mol]:	216.27

## Physical Properties

Property code	Value	Unit	Source
gf	-377.73	kJ/mol	Joback Method
hf	-725.29	kJ/mol	Joback Method
hfus	21.24	kJ/mol	Joback Method
hvap	54.48	kJ/mol	Joback Method
log10ws	-2.10		Crippen Method
logp	2.366		Crippen Method
mvol	174.170	ml/mol	McGowan Method
pc	2363.37	kPa	Joback Method
rinpol	1555.00		NIST Webbook
tb	591.76	K	Joback Method
tc	790.45	K	Joback Method
tf	337.73	K	Joback Method
vc	0.644	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	459.71	J/molxK	591.76	Joback Method
cpg	477.42	J/molxK	624.88	Joback Method
cpg	494.27	J/molxK	657.99	Joback Method
cpg	510.27	J/molxK	691.11	Joback Method
cpg	525.40	J/molxK	724.22	Joback Method
cpg	539.65	J/molxK	757.34	Joback Method
cpg	553.02	J/molxK	790.45	Joback Method
dvisc	0.0019873	Paxs	337.73	Joback Method
dvisc	0.0009997	Paxs	380.07	Joback Method

dvisc	0.0005772	Paxs	422.41	Joback Method
dvisc	0.0003683	Paxs	464.75	Joback Method
dvisc	0.0002533	Paxs	507.08	Joback Method
dvisc	0.0001846	Paxs	549.42	Joback Method
dvisc	0.0001407	Paxs	591.76	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U357870&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357870&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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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