

# Carbonic acid, 2-methoxyethyl cyclohexyl ester

Inchi:	InChI=1S/C10H18O4/c1-12-7-8-13-10(11)14-9-5-3-2-4-6-9/h9H,2-8H2,1H3
InchiKey:	KCEGKWREMWDFQX-UHFFFAOYSA-N
Formula:	C10H18O4
SMILES:	COCCOC(=O)OC1CCCCC1
Mol. weight [g/mol]:	202.25

## Physical Properties

Property code	Value	Unit	Source
gf	-386.15	kJ/mol	Joback Method
hf	-704.65	kJ/mol	Joback Method
hfus	18.65	kJ/mol	Joback Method
hvap	52.26	kJ/mol	Joback Method
log10ws	-2.03		Crippen Method
logp	2.119		Crippen Method
mcvol	160.080	ml/mol	McGowan Method
pc	2600.43	kPa	Joback Method
rinqol	1453.00		NIST Webbook
tb	568.88	K	Joback Method
tc	770.42	K	Joback Method
tf	326.46	K	Joback Method
vc	0.589	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	409.27	J/molxK	568.88	Joback Method
cpg	426.35	J/molxK	602.47	Joback Method
cpg	442.63	J/molxK	636.06	Joback Method
cpg	458.11	J/molxK	669.65	Joback Method
cpg	472.78	J/molxK	703.24	Joback Method
cpg	486.61	J/molxK	736.83	Joback Method
cpg	499.60	J/molxK	770.42	Joback Method
dvisc	0.0021026	Paxs	326.46	Joback Method
dvisc	0.0010749	Paxs	366.86	Joback Method

dvisc	0.0006278	Paxs	407.27	Joback Method
dvisc	0.0004040	Paxs	447.67	Joback Method
dvisc	0.0002797	Paxs	488.07	Joback Method
dvisc	0.0002048	Paxs	528.48	Joback Method
dvisc	0.0001568	Paxs	568.88	Joback Method

## Sources

<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=U357867&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357867&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>

## 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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