

# Carbonic acid, allyl cyclohexylmethyl ester

<b>Inchi:</b>	InChI=1S/C11H18O3/c1-2-8-13-11(12)14-9-10-6-4-3-5-7-10/h2,10H,1,3-9H2
<b>InchiKey:</b>	XJXMUGUGYJEXGN-UHFFFAOYSA-N
<b>Formula:</b>	C11H18O3
<b>SMILES:</b>	C=CCOC(=O)OCC1CCCCC1
<b>Mol. weight [g/mol]:</b>	198.26

## Physical Properties

Property code	Value	Unit	Source
gf	-184.89	kJ/mol	Joback Method
hf	-467.64	kJ/mol	Joback Method
hfus	18.78	kJ/mol	Joback Method
hvap	51.41	kJ/mol	Joback Method
log10ws	-2.86		Crippen Method
logp	2.906		Crippen Method
mcvol	164.000	ml/mol	McGowan Method
pc	2505.01	kPa	Joback Method
rinpola	1421.00		NIST Webbook
rinpola	1421.00		NIST Webbook
tb	566.02	K	Joback Method
tc	770.50	K	Joback Method
tf	313.74	K	Joback Method
vc	0.608	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	411.52	J/molxK	566.02	Joback Method
cpg	490.28	J/molxK	736.42	Joback Method
cpg	476.30	J/molxK	702.34	Joback Method
cpg	461.44	J/molxK	668.26	Joback Method
cpg	445.69	J/molxK	634.18	Joback Method
cpg	429.06	J/molxK	600.10	Joback Method
cpg	503.38	J/molxK	770.50	Joback Method
dvisc	0.0001835	Paxs	566.02	Joback Method

dvisc	0.0002401	Paxs	523.97	Joback Method
dvisc	0.0003292	Paxs	481.93	Joback Method
dvisc	0.0004794	Paxs	439.88	Joback Method
dvisc	0.0007561	Paxs	397.83	Joback Method
dvisc	0.0013277	Paxs	355.79	Joback Method
dvisc	0.0027116	Paxs	313.74	Joback Method

## Sources

<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=U357807&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357807&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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