

# Carbonic acid, butyl cyclohexylmethyl ester

<b>Inchi:</b>	InChI=1S/C12H22O3/c1-2-3-9-14-12(13)15-10-11-7-5-4-6-8-11/h11H,2-10H2,1H3
<b>InchiKey:</b>	JLIOMAHBSOWBDM-UHFFFAOYSA-N
<b>Formula:</b>	C12H22O3
<b>SMILES:</b>	CCCCOC(=O)OCC1CCCCC1
<b>Mol. weight [g/mol]:</b>	214.30

## Physical Properties

Property code	Value	Unit	Source
gf	-264.31	kJ/mol	Joback Method
hf	-613.71	kJ/mol	Joback Method
hfus	22.65	kJ/mol	Joback Method
hvap	54.30	kJ/mol	Joback Method
log10ws	-3.43		Crippen Method
logp	3.520		Crippen Method
mcvol	182.390	ml/mol	McGowan Method
pc	2191.78	kPa	Joback Method
rinqol	1531.00		NIST Webbook
tb	592.22	K	Joback Method
tc	789.92	K	Joback Method
tf	326.77	K	Joback Method
vc	0.682	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	483.09	J/molxK	592.22	Joback Method
cpg	501.71	J/molxK	625.17	Joback Method
cpg	519.41	J/molxK	658.12	Joback Method
cpg	536.19	J/molxK	691.07	Joback Method
cpg	552.05	J/molxK	724.02	Joback Method
cpg	566.99	J/molxK	756.97	Joback Method
cpg	581.03	J/molxK	789.92	Joback Method
dvisc	0.0026804	Paxs	326.77	Joback Method
dvisc	0.0012663	Paxs	371.01	Joback Method

dvisc	0.0007018	Paxs	415.25	Joback Method
dvisc	0.0004358	Paxs	459.50	Joback Method
dvisc	0.0002942	Paxs	503.74	Joback Method
dvisc	0.0002117	Paxs	547.98	Joback Method
dvisc	0.0001600	Paxs	592.22	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U357845&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357845&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>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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