

# Carbonic acid, (1R)-(-)-menthyl butyl ester

**Inchi:** InChI=1S/C15H28O3/c1-5-6-9-17-15(16)18-14-10-13(11(2)3)8-7-12(14)4/h11-14H,5-10H  
**InchiKey:** AWUDZFMWMSQPTA-UHFFFAOYSA-N  
**Formula:** C15H28O3  
**SMILES:** CCCOC(=O)OC1CC(C(C)C)CCC1C  
**Mol. weight [g/mol]:** 256.38

## Physical Properties

Property code	Value	Unit	Source
gf	-256.91	kJ/mol	Joback Method
hf	-721.59	kJ/mol	Joback Method
hfus	29.04	kJ/mol	Joback Method
hvap	59.97	kJ/mol	Joback Method
log10ws	-4.31		Crippen Method
logp	4.401		Crippen Method
mvol	224.660	ml/mol	McGowan Method
pc	1623.29	kPa	Joback Method
rinpol	1646.00		NIST Webbook
rinpol	1646.00		NIST Webbook
tb	651.08	K	Joback Method
tc	844.83	K	Joback Method
tf	337.10	K	Joback Method
vc	0.843	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	648.69	J/molxK	651.08	Joback Method
cpg	669.71	J/molxK	683.37	Joback Method
cpg	689.63	J/molxK	715.66	Joback Method
cpg	708.47	J/molxK	747.95	Joback Method
cpg	726.22	J/molxK	780.24	Joback Method
cpg	742.89	J/molxK	812.54	Joback Method
cpg	758.46	J/molxK	844.83	Joback Method
dvisc	0.0021819	Paxs	337.10	Joback Method

dvisc	0.0010313	Paxs	389.43	Joback Method
dvisc	0.0005821	Paxs	441.76	Joback Method
dvisc	0.0003709	Paxs	494.09	Joback Method
dvisc	0.0002577	Paxs	546.42	Joback Method
dvisc	0.0001907	Paxs	598.75	Joback Method
dvisc	0.0001482	Paxs	651.08	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U392433&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392433&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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