

# Ethyl L-menthyl carbonate

<b>Other names:</b>	Carbonic acid, ethyl 5-methyl-2-(1-methylethyl)cyclohexyl ester, [1R-(1«alpha», 2«beta», 5«alpha»)]-ethyl menthyl carbonate
<b>Inchi:</b>	InChI=1S/C13H24O3/c1-5-15-13(14)16-12-8-10(4)6-7-11(12)9(2)3/h9-12H,5-8H2,1-4H3
<b>InchiKey:</b>	SYCXJIPGDBATKA-UHFFFAOYSA-N
<b>Formula:</b>	C13H24O3
<b>SMILES:</b>	CCOC(=O)OC1CC(C)CCC1C(C)C
<b>Mol. weight [g/mol]:</b>	228.33
<b>CAS:</b>	35106-15-1

## Physical Properties

Property code	Value	Unit	Source
gf	-273.75	kJ/mol	Joback Method
hf	-680.31	kJ/mol	Joback Method
hfus	23.86	kJ/mol	Joback Method
hvap	55.52	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	3.620		Crippen Method
mvol	196.480	ml/mol	McGowan Method
pc	1906.90	kPa	Joback Method
tb	605.32	K	Joback Method
tc	803.88	K	Joback Method
tf	314.56	K	Joback Method
vc	0.731	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	538.44	J/molxK	605.32	Joback Method
cpg	558.82	J/molxK	638.41	Joback Method
cpg	578.20	J/molxK	671.51	Joback Method
cpg	596.56	J/molxK	704.60	Joback Method
cpg	613.91	J/molxK	737.69	Joback Method
cpg	630.25	J/molxK	770.79	Joback Method
cpg	645.55	J/molxK	803.88	Joback Method

dvisc	0.0023708	Paxs	314.56	Joback Method
dvisc	0.0011564	Paxs	363.02	Joback Method
dvisc	0.0006680	Paxs	411.48	Joback Method
dvisc	0.0004332	Paxs	459.94	Joback Method
dvisc	0.0003051	Paxs	508.40	Joback Method
dvisc	0.0002284	Paxs	556.86	Joback Method
dvisc	0.0001791	Paxs	605.32	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	403.00	K	1.90	NIST Webbook

## 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=C35106151&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C35106151&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>

## 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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure

**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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