

# Carbamic acid, (hydroxymethyl)-,methyl ester

<b>Other names:</b>	methyl (hydroxymethyl)-carbamate
<b>Inchi:</b>	InChI=1S/C3H7NO3/c1-7-3(6)4-2-5/h5H,2H2,1H3,(H,4,6)
<b>InchiKey:</b>	QLIOROOVARTAMQ-UHFFFAOYSA-N
<b>Formula:</b>	C3H7NO3
<b>SMILES:</b>	COC(=O)NCO
<b>Mol. weight [g/mol]:</b>	105.09
<b>CAS:</b>	15438-65-0

## Physical Properties

Property code	Value	Unit	Source
gf	-306.97	kJ/mol	Joback Method
hf	-448.81	kJ/mol	Joback Method
hfus	15.50	kJ/mol	Joback Method
hvap	54.54	kJ/mol	Joback Method
log10ws	0.13		Crippen Method
logp	-0.708		Crippen Method
mcvol	76.420	ml/mol	McGowan Method
pc	5446.55	kPa	Joback Method
tb	486.68	K	Joback Method
tc	664.80	K	Joback Method
tf	309.21	K	Joback Method
vc	0.281	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	163.71	J/molxK	486.68	Joback Method
cpg	169.78	J/molxK	516.37	Joback Method
cpg	175.64	J/molxK	546.05	Joback Method
cpg	181.29	J/molxK	575.74	Joback Method
cpg	186.73	J/molxK	605.43	Joback Method
cpg	191.95	J/molxK	635.12	Joback Method
cpg	196.94	J/molxK	664.80	Joback Method

# Sources

<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>
<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=C15438650&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C15438650&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>h vap:</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>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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