

# Methyl dimethylcarbamate

Other names:	(CH <sub>3</sub> ) <sub>2</sub> NCOOCH <sub>3</sub>
Inchi:	InChI=1S/C4H9NO2/c1-5(2)4(6)7-3/h1-3H3
InchiKey:	SELYJABLPLKXOY-UHFFFAOYSA-N
Formula:	C <sub>4</sub> H <sub>9</sub> NO <sub>2</sub>
SMILES:	COC(=O)N(C)C
Mol. weight [g/mol]:	103.12
CAS:	7541-16-4

## Physical Properties

Property code	Value	Unit	Source
affp	878.30	kJ/mol	NIST Webbook
basg	847.30	kJ/mol	NIST Webbook
gf	-140.34	kJ/mol	Joback Method
hf	-303.16	kJ/mol	Joback Method
hfus	11.92	kJ/mol	Joback Method
hvap	35.70	kJ/mol	Joback Method
log10ws	0.09		Crippen Method
logp	0.314		Crippen Method
mcvol	84.640	ml/mol	McGowan Method
pc	4119.70	kPa	Joback Method
tb	379.65	K	Joback Method
tc	557.48	K	Joback Method
tf	239.47	K	Joback Method
vc	0.301	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	154.64	J/molxK	379.65	Joback Method
cpg	163.00	J/molxK	409.29	Joback Method
cpg	171.06	J/molxK	438.93	Joback Method
cpg	178.83	J/molxK	468.56	Joback Method
cpg	186.32	J/molxK	498.20	Joback Method
cpg	193.53	J/molxK	527.84	Joback Method

## Sources

<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=C7541164&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7541164&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>affp:</b>	Proton affinity
<b>basg:</b>	Gas basicity
<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>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>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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