

# Carbamic acid, methylphenyl-, ethyl ester

<b>Other names:</b>	Carbanilic acid, N-methyl-, ethyl ester Ethyl methylphenylcarbamate Ethyl N-methyl-N-phenylcarbamate N-Methylcarbanilic acid, ethyl ester N-Methyl-N-phenylurethane
<b>Inchi:</b>	InChI=1S/C10H13NO2/c1-3-13-10(12)11(2)9-7-5-4-6-8-9/h4-8H,3H2,1-2H3
<b>InchiKey:</b>	QHGZFCAIXRVHID-UHFFFAOYSA-N
<b>Formula:</b>	C10H13NO2
<b>SMILES:</b>	CCOC(=O)N(C)c1ccccc1
<b>Mol. weight [g/mol]:</b>	179.22
<b>CAS:</b>	2621-79-6

## Physical Properties

Property code	Value	Unit	Source
chl	-5409.10 ± 5.00	kJ/mol	NIST Webbook
chl	-5416.02	kJ/mol	NIST Webbook
chs	-5628.30	kJ/mol	NIST Webbook
gf	22.59	kJ/mol	Joback Method
hf	-190.47	kJ/mol	Joback Method
hfl	-377.00	kJ/mol	NIST Webbook
hfl	-384.00 ± 5.00	kJ/mol	NIST Webbook
hfs	-165.00	kJ/mol	NIST Webbook
hfus	21.50	kJ/mol	Joback Method
hvap	51.33	kJ/mol	Joback Method
log10ws	-2.06		Crippen Method
logp	2.279		Crippen Method
mcvol	145.420	ml/mol	McGowan Method
pc	3076.16	kPa	Joback Method
tb	543.61	K	Joback Method
tc	753.24	K	Joback Method
tf	333.51	K	Joback Method
vc	0.529	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	334.74	J/mol×K	543.61	Joback Method
cpg	349.03	J/mol×K	578.55	Joback Method
cpg	362.47	J/mol×K	613.49	Joback Method
cpg	375.08	J/mol×K	648.42	Joback Method
cpg	386.90	J/mol×K	683.36	Joback Method
cpg	397.95	J/mol×K	718.30	Joback Method
cpg	408.25	J/mol×K	753.24	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=C2621796&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2621796&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>chl:</b>	Standard liquid enthalpy of combustion
<b>chs:</b>	Standard solid enthalpy of combustion
<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>hfl:</b>	Liquid phase enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase 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

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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