

# Carbamic acid, phenyl-, ethyl ester

<b>Other names:</b>	Carbanilic acid, ethyl ester Ethyl carbanilate Ethyl phenylcarbamate Ethyl N-phenylcarbamate Ethyl N-phenylurethan Ethyl N-phenylurethane Euphorin EPC (The plant regulator) Keimstop N-(Ethoxycarbonyl)aniline N-Phenylurethane Phenylurethan Phenylurethane Phenylethyl carbamate Urethane, phenyl- EPC Ethylester kyseliny karbanilove Urethan, phenyl- Ethyl ester of phenylcarbamic acid Ethyl N-phenylcarbanilate N-Phenyl ethylcarbamate Phenylcarbamic acid ethyl ester Carbamic acid, N-phenyl-, ethyl ester Ethanol, carbanilate NSC 3245
<b>Inchi:</b>	InChI=1S/C9H11NO2/c1-2-12-9(11)10-8-6-4-3-5-7-8/h3-7H,2H2,1H3,(H,10,11)
<b>InchiKey:</b>	LBKPGNUOUPQKA-UHFFFAOYSA-N
<b>Formula:</b>	C9H11NO2
<b>SMILES:</b>	CCOC(=O)Nc1ccccc1
<b>Mol. weight [g/mol]:</b>	165.19
<b>CAS:</b>	101-99-5

## Physical Properties

Property code	Value	Unit	Source
gf	-7.22	kJ/mol	Joback Method
hf	-183.89	kJ/mol	Joback Method

hfus	20.99		kJ/mol	Joback Method
hvap	53.50		kJ/mol	Joback Method
log10ws	-2.16			Crippen Method
logp	2.255			Crippen Method
mcvol	131.330		ml/mol	McGowan Method
pc	3493.01		kPa	Joback Method
rinpol	1418.00			NIST Webbook
rinpol	1404.00			NIST Webbook
rinpol	1391.00			NIST Webbook
rinpol	1381.00			NIST Webbook
rinpol	1391.00			NIST Webbook
rinpol	1391.00			NIST Webbook
rinpol	1392.00			NIST Webbook
rinpol	1396.00			NIST Webbook
rinpol	1401.00			NIST Webbook
ripol	2031.00			NIST Webbook
ripol	2031.00			NIST Webbook
tb	558.46		K	Joback Method
tc	774.81		K	Joback Method
tf	326.00 ± 1.00		K	NIST Webbook
vc	0.490		m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	326.48	J/mol×K	630.58	Joback Method
cpg	367.10	J/mol×K	774.81	Joback Method
cpg	358.00	J/mol×K	738.75	Joback Method
cpg	348.21	J/mol×K	702.69	Joback Method
cpg	337.71	J/mol×K	666.64	Joback Method
cpg	301.77	J/mol×K	558.46	Joback Method
cpg	314.51	J/mol×K	594.52	Joback Method
cps	227.20	J/mol×K	298.00	NIST Webbook
hfust	16.27	kJ/mol	326.00	NIST Webbook
hfust	16.27	kJ/mol	326.00	NIST Webbook
hfust	16.27	kJ/mol	326.00	NIST Webbook
hvapt	84.20	kJ/mol	445.00	NIST Webbook
sfust	49.90	J/mol×K	326.00	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=C101995&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C101995&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.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>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>cps:</b>	Solid phase 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>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>ripol:</b>	Polar retention indices
<b>sfust:</b>	Entropy of fusion at a given temperature
<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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