

Carbamic acid, (4-chlorophenyl)-, ethyl ester

Other names:	Carbanilic acid, p-chloro-, ethyl ester p-Chlorophenylurethane Ethyl N-(p-chlorophenyl)carbamate N-(4-Chlorophenyl)ethylurethane Ethyl 4-chlorophenylcarbamate p-Chlorocarbanilic acid ethyl ester Carbamic acid, (p-chlorophenyl)-, ethyl ester 4-Chlorophenylamine, N-ethoxycarbonyl- Ethyl (p-chlorophenyl)carbamate Ethyl 4-chlorocarbanilate Ethyl N-(4-chlorophenyl)carbamate Ethyl p-chlorocarbanilate NSC 26960
Inchi:	InChI=1S/C9H10ClNO2/c1-2-13-9(12)11-8-5-3-7(10)4-6-8/h3-6H,2H2,1H3,(H,11,12)
InchiKey:	WSKXXIMERYQVGJ-UHFFFAOYSA-N
Formula:	C9H10ClNO2
SMILES:	CCOC(=O)Nc1ccc(Cl)cc1
Mol. weight [g/mol]:	199.63
CAS:	2621-80-9

Physical Properties

Property code	Value	Unit	Source
gf	-28.78	kJ/mol	Joback Method
hf	-211.10	kJ/mol	Joback Method
hfus	24.80	kJ/mol	Joback Method
hvap	58.54	kJ/mol	Joback Method
log10ws	-2.84		Crippen Method
logp	2.908		Crippen Method
mcvol	143.570	ml/mol	McGowan Method
pc	3287.81	kPa	Joback Method
rinpol	1578.00		NIST Webbook
rinpol	1585.00		NIST Webbook
rinpol	1589.00		NIST Webbook
rinpol	1581.00		NIST Webbook
tb	600.87	K	Joback Method
tc	822.23	K	Joback Method
tf	384.87	K	Joback Method

vc

0.539

m³/kmol

Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	325.59	J/mol×K	600.87	Joback Method
cpg	337.21	J/mol×K	637.76	Joback Method
cpg	348.09	J/mol×K	674.66	Joback Method
cpg	358.25	J/mol×K	711.55	Joback Method
cpg	367.72	J/mol×K	748.44	Joback Method
cpg	376.50	J/mol×K	785.34	Joback Method
cpg	384.60	J/mol×K	822.23	Joback Method

Sources

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

Joback Method:

https://en.wikipedia.org/wiki/Joback_method

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C2621809&Units=SI>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume

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