

# Carbonic acid, 2-chloroethyl 4-nitrophenyl ester

Inchi:	InChI=1S/C9H8ClNO5/c10-5-6-15-9(12)16-8-3-1-7(2-4-8)11(13)14/h1-4H,5-6H2
InchiKey:	XTINYHMDVMSXCV-UHFFFAOYSA-N
Formula:	C9H8ClNO5
SMILES:	O=C(OCCCl)Oc1ccc([N+](=O)[O-])cc1
Mol. weight [g/mol]:	245.62

## Physical Properties

Property code	Value	Unit	Source
gf	-187.62	kJ/mol	Joback Method
hf	-407.55	kJ/mol	Joback Method
hfus	32.25	kJ/mol	Joback Method
hvap	71.11	kJ/mol	Joback Method
log10ws	-3.07		Crippen Method
logp	2.349		Crippen Method
mcvol	156.880	ml/mol	McGowan Method
pc	3220.98	kPa	Joback Method
rinqol	1931.00		NIST Webbook
tb	724.96	K	Joback Method
tc	965.97	K	Joback Method
tf	498.05	K	Joback Method
vc	0.605	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	390.27	J/mol×K	724.96	Joback Method
cpg	400.48	J/mol×K	765.13	Joback Method
cpg	409.80	J/mol×K	805.30	Joback Method
cpg	418.25	J/mol×K	845.46	Joback Method
cpg	425.82	J/mol×K	885.63	Joback Method
cpg	432.51	J/mol×K	925.80	Joback Method
cpg	438.34	J/mol×K	965.97	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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=U357890&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357890&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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>rinpola:</b>	Non-polar retention indices
<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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