

# Formic acid, 2-(4-nitrophenoxy)ethyl ester

<b>Inchi:</b>	InChI=1S/C9H9NO5/c11-7-14-5-6-15-9-3-1-8(2-4-9)10(12)13/h1-4,7H,5-6H2
<b>InchiKey:</b>	VICWPMCACVBXQW-UHFFFAOYSA-N
<b>Formula:</b>	C9H9NO5
<b>SMILES:</b>	O=COCOCc1ccc([N+](=O)[O-])cc1
<b>Mol. weight [g/mol]:</b>	211.17

## Physical Properties

Property code	Value	Unit	Source
gf	-146.29	kJ/mol	Joback Method
hf	-364.81	kJ/mol	Joback Method
hfus	28.74	kJ/mol	Joback Method
hvap	66.70	kJ/mol	Joback Method
log10ws	-1.94		Crippen Method
logp	1.147		Crippen Method
mcvol	144.640	ml/mol	McGowan Method
pc	3403.91	kPa	Joback Method
rinsol	1860.00		NIST Webbook
tb	682.32	K	Joback Method
tc	915.95	K	Joback Method
tf	460.20	K	Joback Method
vc	0.567	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	370.09	J/mol×K	682.32	Joback Method
cpg	381.09	J/mol×K	721.26	Joback Method
cpg	391.28	J/mol×K	760.20	Joback Method
cpg	400.65	J/mol×K	799.14	Joback Method
cpg	409.20	J/mol×K	838.08	Joback Method
cpg	416.95	J/mol×K	877.01	Joback Method
cpg	423.88	J/mol×K	915.95	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=U368925&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U368925&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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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