

# Formic acid, (4-methyl-3-nitrophenyl)methyl ester

Inchi:	InChI=1S/C9H9NO4/c1-7-2-3-8(5-14-6-11)4-9(7)10(12)13/h2-4,6H,5H2,1H3
InchiKey:	ORFBBOBPAWUFAS-UHFFFAOYSA-N
Formula:	C9H9NO4
SMILES:	<chem>Cc1ccc(COC=O)cc1[N+](=O)[O-]</chem>
Mol. weight [g/mol]:	195.17

## Physical Properties

Property code	Value	Unit	Source
gf	-50.92	kJ/mol	Joback Method
hf	-244.06	kJ/mol	Joback Method
hfus	27.17	kJ/mol	Joback Method
hvap	64.95	kJ/mol	Joback Method
log10ws	-2.76		Crippen Method
logp	1.576		Crippen Method
mcvol	138.770	ml/mol	McGowan Method
pc	3411.87	kPa	Joback Method
rinpol	1610.00		NIST Webbook
tb	664.88	K	Joback Method
tc	902.91	K	Joback Method
tf	450.49	K	Joback Method
vc	0.548	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	345.52	J/molxK	664.88	Joback Method
cpg	356.53	J/molxK	704.55	Joback Method
cpg	366.74	J/molxK	744.22	Joback Method
cpg	376.18	J/molxK	783.89	Joback Method
cpg	384.86	J/molxK	823.56	Joback Method
cpg	392.79	J/molxK	863.24	Joback Method
cpg	399.98	J/molxK	902.91	Joback Method

# Sources

<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>
<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=U368226&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U368226&amp;Units=SI</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

Latest version available from:

<https://www.chemeo.com/cid/48-402-2/Formic-acid-4-methyl-3-nitrophenyl-methyl-ester.pdf>

Generated by Cheméo on 2024-04-24 22:18:10.670805044 +0000 UTC m=+16286339.591382356.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.