

# 3-Methylaminophthalimide

<b>Inchi:</b>	InChI=1S/C9H8N2O2/c1-10-6-4-2-3-5-7(6)9(13)11-8(5)12/h2-4,10H,1H3,(H,11,12,13)
<b>InchiKey:</b>	NHDLTFGXURCZMY-UHFFFAOYSA-N
<b>Formula:</b>	C9H8N2O2
<b>SMILES:</b>	CNc1cccc2c1C(=O)NC2=O
<b>Mol. weight [g/mol]:</b>	176.17
<b>CAS:</b>	5972-09-8

## Physical Properties

Property code	Value	Unit	Source
gf	118.43	kJ/mol	Joback Method
hf	-106.48	kJ/mol	Joback Method
hfus	23.10	kJ/mol	Joback Method
hvap	61.14	kJ/mol	Joback Method
log10ws	-2.04		Crippen Method
logp	0.612		Crippen Method
mcvol	126.150	ml/mol	McGowan Method
pc	4385.77	kPa	Joback Method
tb	687.73	K	Joback Method
tc	947.49	K	Joback Method
tf	558.96	K	Joback Method
vc	0.475	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	328.48	J/molxK	687.73	Joback Method
cpg	341.18	J/molxK	731.02	Joback Method
cpg	352.97	J/molxK	774.32	Joback Method
cpg	363.80	J/molxK	817.61	Joback Method
cpg	373.67	J/molxK	860.90	Joback Method
cpg	382.53	J/molxK	904.20	Joback Method
cpg	390.38	J/molxK	947.49	Joback Method
hsubt	104.90	kJ/mol	426.00	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=C5972098&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5972098&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.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>

# 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>hsubt:</b>	Enthalpy of sublimation at a given temperature
<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>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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