

# Benzoic acid, 2-(formylamino)-, methyl ester

<b>Other names:</b>	Methyl N-formylanthranilate Methyl 2-formylaminobenzoate Methyl 2-formamidobenzoate
<b>Inchi:</b>	InChI=1S/C9H9NO3/c1-13-9(12)7-4-2-3-5-8(7)10-6-11/h2-6H,1H3,(H,10,11)
<b>InchiKey:</b>	HRNPZFOYXWWMFL-UHFFFAOYSA-N
<b>Formula:</b>	C9H9NO3
<b>SMILES:</b>	<chem>COC(=O)c1ccccc1NC=O</chem>
<b>Mol. weight [g/mol]:</b>	179.17
<b>CAS:</b>	41270-80-8

## Physical Properties

Property code	Value	Unit	Source
gf	-116.37	kJ/mol	Joback Method
hf	-280.94	kJ/mol	Joback Method
hfus	22.89	kJ/mol	Joback Method
hvap	60.88	kJ/mol	Joback Method
log10ws	-1.50		Crippen Method
logp	1.041		Crippen Method
mcvol	132.900	ml/mol	McGowan Method
pc	3749.97	kPa	Joback Method
rinpol	1564.10		NIST Webbook
rinpol	1564.10		NIST Webbook
tb	612.10	K	Joback Method
tc	832.00	K	Joback Method
tf	396.95	K	Joback Method
vc	0.507	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	315.66	J/mol×K	612.10	Joback Method
cpg	326.58	J/mol×K	648.75	Joback Method
cpg	336.79	J/mol×K	685.40	Joback Method
cpg	346.31	J/mol×K	722.05	Joback Method

cpg	355.15	J/mol×K	758.70	Joback Method
cpg	363.33	J/mol×K	795.35	Joback Method
cpg	370.85	J/mol×K	832.00	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C41270808&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C41270808&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>

## 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>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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