

# Acetamide, N-(4-fluorophenyl)-2-methoxy-

Inchi:	InChI=1S/C9H10FNO2/c1-13-6-9(12)11-8-4-2-7(10)3-5-8/h2-5H,6H2,1H3,(H,11,12)
InchiKey:	UEPWPIXCWQGGW-UHFFFAOYSA-N
Formula:	C9H10FNO2
SMILES:	COCC(=O)Nc1ccc(F)cc1
Mol. weight [g/mol]:	183.18

## Physical Properties

Property code	Value	Unit	Source
gf	-211.66	kJ/mol	Joback Method
hf	-391.47	kJ/mol	Joback Method
hfus	23.68	kJ/mol	Joback Method
hvap	53.34	kJ/mol	Joback Method
log10ws	-1.51		Crippen Method
logp	1.411		Crippen Method
mcvol	133.100	ml/mol	McGowan Method
pc	3257.86	kPa	Joback Method
rinpol	1446.00		NIST Webbook
rinpol	1446.00		NIST Webbook
tb	562.71	K	Joback Method
tc	769.64	K	Joback Method
tf	355.54	K	Joback Method
vc	0.508	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	309.46	J/molxK	562.71	Joback Method
cpg	321.28	J/molxK	597.20	Joback Method
cpg	332.44	J/molxK	631.69	Joback Method
cpg	342.95	J/molxK	666.18	Joback Method
cpg	352.83	J/molxK	700.66	Joback Method
cpg	362.08	J/molxK	735.15	Joback Method
cpg	370.71	J/molxK	769.64	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U307256&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307256&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>
<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>rlnpol:</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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