

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

<b>Inchi:</b>	InChI=1S/C10H13NO3/c1-13-7-10(12)11-8-3-5-9(14-2)6-4-8/h3-6H,7H2,1-2H3,(H,11,12)
<b>InchiKey:</b>	TTZFXJGNEYPIBY-UHFFFAOYSA-N
<b>Formula:</b>	C10H13NO3
<b>SMILES:</b>	COCC(=O)Nc1ccc(OC)cc1
<b>Mol. weight [g/mol]:</b>	195.22

## Physical Properties

Property code	Value	Unit	Source
gf	-113.43	kJ/mol	Joback Method
hf	-348.22	kJ/mol	Joback Method
hfus	24.38	kJ/mol	Joback Method
hvap	58.79	kJ/mol	Joback Method
log10ws	-1.30		Crippen Method
logp	1.280		Crippen Method
mcvol	151.290	ml/mol	McGowan Method
pc	3018.96	kPa	Joback Method
rinpola	1719.00		NIST Webbook
rinpola	1719.00		NIST Webbook
tb	608.74	K	Joback Method
tc	820.04	K	Joback Method
tf	388.45	K	Joback Method
vc	0.565	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	371.89	J/molxK	608.74	Joback Method
cpg	384.97	J/molxK	643.96	Joback Method
cpg	397.32	J/molxK	679.17	Joback Method
cpg	408.96	J/molxK	714.39	Joback Method
cpg	419.87	J/molxK	749.61	Joback Method
cpg	430.05	J/molxK	784.82	Joback Method
cpg	439.52	J/molxK	820.04	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U307259&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307259&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

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