

# Acetamide, N-(4-methoxyphenyl)-N-methyl-

<b>Other names:</b>	Acetaminophen di-methyl derivative N-(4-Methoxyphenyl)-N-methylacetamide Acetaminophen, bis-Me p-Methoxy-N-methylacetanilide p-Acetaniside, N-methyl- Acetaminophen, bis-methyl- Acetaminophen Me
<b>Inchi:</b>	InChI=1S/C10H13NO2/c1-8(12)11(2)9-4-6-10(13-3)7-5-9/h4-7H,1-3H3
<b>InchiKey:</b>	BZSWWJLVPTULPS-UHFFFAOYSA-N
<b>Formula:</b>	C10H13NO2
<b>SMILES:</b>	COc1ccc(N(C)C(C)=O)cc1
<b>Mol. weight [g/mol]:</b>	179.22
<b>CAS:</b>	35813-38-8

## Physical Properties

Property code	Value	Unit	Source
gf	12.96	kJ/mol	Joback Method
hf	-201.94	kJ/mol	Joback Method
hfus	21.12	kJ/mol	Joback Method
hvap	51.99	kJ/mol	Joback Method
log10ws	-1.69		Crippen Method
logp	1.678		Crippen Method
mvol	145.420	ml/mol	McGowan Method
pc	3025.61	kPa	Joback Method
rinpol	1512.00		NIST Webbook
rinpol	1512.00		NIST Webbook
tb	548.59	K	Joback Method
tc	759.30	K	Joback Method
tf	346.03	K	Joback Method
vc	0.529	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	334.56	J/mol×K	548.59	Joback Method
cpg	348.54	J/mol×K	583.71	Joback Method
cpg	361.71	J/mol×K	618.83	Joback Method
cpg	374.11	J/mol×K	653.94	Joback Method
cpg	385.75	J/mol×K	689.06	Joback Method
cpg	396.66	J/mol×K	724.18	Joback Method
cpg	406.85	J/mol×K	759.30	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C35813388&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C35813388&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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