

# Acetamide, N-(3-methylphenyl)-2-methoxy-

<b>Inchi:</b>	InChI=1S/C10H13NO2/c1-8-4-3-5-9(6-8)11-10(12)7-13-2/h3-6H,7H2,1-2H3,(H,11,12)
<b>InchiKey:</b>	KHVUHFOOPAOLHJ-UHFFFAOYSA-N
<b>Formula:</b>	C10H13NO2
<b>SMILES:</b>	COCC(=O)Nc1cccc(C)c1
<b>Mol. weight [g/mol]:</b>	179.22

## Physical Properties

Property code	Value	Unit	Source
gf	-8.43	kJ/mol	Joback Method
hf	-216.00	kJ/mol	Joback Method
hfus	23.19	kJ/mol	Joback Method
hvap	56.38	kJ/mol	Joback Method
log10ws	-1.66		Crippen Method
logp	1.580		Crippen Method
mcvol	145.420	ml/mol	McGowan Method
pc	3076.16	kPa	Joback Method
rinqol	1554.00		NIST Webbook
tb	586.32	K	Joback Method
tc	800.02	K	Joback Method
tf	366.22	K	Joback Method
vc	0.546	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	347.62	J/mol×K	586.32	Joback Method
cpg	360.93	J/mol×K	621.94	Joback Method
cpg	373.47	J/mol×K	657.55	Joback Method
cpg	385.26	J/mol×K	693.17	Joback Method
cpg	396.32	J/mol×K	728.79	Joback Method
cpg	406.66	J/mol×K	764.40	Joback Method
cpg	416.30	J/mol×K	800.02	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U307257&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307257&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>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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