

# Butanamide, N-(4-methoxyphenyl)-

<b>Other names:</b>	4'-methoxybutyranilide
<b>Inchi:</b>	InChI=1S/C11H15NO2/c1-3-4-11(13)12-9-5-7-10(14-2)8-6-9/h5-8H,3-4H2,1-2H3,(H,12,1
<b>InchiKey:</b>	JOJWXZRJWDMSQA-UHFFFAOYSA-N
<b>Formula:</b>	C11H15NO2
<b>SMILES:</b>	CCCC(=O)Nc1ccc(OC)cc1
<b>Mol. weight [g/mol]:</b>	193.24
<b>CAS:</b>	5421-40-9

## Physical Properties

Property code	Value	Unit	Source
gf	-0.01	kJ/mol	Joback Method
hf	-236.64	kJ/mol	Joback Method
hfus	25.78	kJ/mol	Joback Method
hvap	58.61	kJ/mol	Joback Method
log10ws	-2.63		Crippen Method
logp	2.434		Crippen Method
mcvol	159.510	ml/mol	McGowan Method
pc	2773.00	kPa	Joback Method
rinpol	1760.00		NIST Webbook
rinpol	1760.00		NIST Webbook
tb	609.20	K	Joback Method
tc	819.40	K	Joback Method
tf	377.49	K	Joback Method
vc	0.603	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	395.72	J/molxK	609.20	Joback Method
cpg	409.76	J/molxK	644.23	Joback Method
cpg	422.99	J/molxK	679.27	Joback Method
cpg	435.44	J/molxK	714.30	Joback Method
cpg	447.11	J/molxK	749.33	Joback Method
cpg	458.03	J/molxK	784.36	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C5421409&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5421409&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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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