

# Butanamide, N-(2,5-dimethoxyphenyl)-

<b>Inchi:</b>	InChI=1S/C12H17NO3/c1-4-5-12(14)13-10-8-9(15-2)6-7-11(10)16-3/h6-8H,4-5H2,1-3H3
<b>InchiKey:</b>	VBJWZQLKFYYTHQ-UHFFFAOYSA-N
<b>Formula:</b>	C12H17NO3
<b>SMILES:</b>	CCCC(=O)Nc1cc(OC)ccc1OC
<b>Mol. weight [g/mol]:</b>	223.27

## Physical Properties

Property code	Value	Unit	Source
gf	-106.22	kJ/mol	Joback Method
hf	-400.97	kJ/mol	Joback Method
hfus	29.17	kJ/mol	Joback Method
hvap	63.91	kJ/mol	Joback Method
log10ws	-2.75		Crippen Method
logp	2.442		Crippen Method
mcvol	179.470	ml/mol	McGowan Method
pc	2433.84	kPa	Joback Method
rinpol	1854.00		NIST Webbook
tb	659.48	K	Joback Method
tc	865.30	K	Joback Method
tf	423.51	K	Joback Method
vc	0.676	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	470.58	J/molxK	659.48	Joback Method
cpg	484.80	J/molxK	693.78	Joback Method
cpg	498.23	J/molxK	728.09	Joback Method
cpg	510.88	J/molxK	762.39	Joback Method
cpg	522.73	J/molxK	796.69	Joback Method
cpg	533.79	J/molxK	830.99	Joback Method
cpg	544.05	J/molxK	865.30	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U306917&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U306917&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>mccvol:</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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