

# Benzamide, 3-methoxy-N-(3-methoxybenzoyl)-N-butyl-

<b>Inchi:</b>	InChI=1S/C20H23NO4/c1-4-5-12-21(19(22)15-8-6-10-17(13-15)24-2)20(23)16-9-7-11-18
<b>InchiKey:</b>	XCMLAVMKMUXMBQ-UHFFFAOYSA-N
<b>Formula:</b>	C20H23NO4
<b>SMILES:</b>	CCCCN(C(=O)c1cccc(OC)c1)C(=O)c1cccc(OC)c1
<b>Mol. weight [g/mol]:</b>	341.40

## Physical Properties

Property code	Value	Unit	Source
gf	-33.98	kJ/mol	Joback Method
hf	-428.08	kJ/mol	Joback Method
hfus	43.45	kJ/mol	Joback Method
hvap	86.34	kJ/mol	Joback Method
log10ws	-5.08		Crippen Method
logp	3.786		Crippen Method
mcvol	270.000	ml/mol	McGowan Method
pc	1713.19	kPa	Joback Method
rinpol	2607.00		NIST Webbook
rinpol	2607.00		NIST Webbook
tb	885.34	K	Joback Method
tc	1108.34	K	Joback Method
tf	569.83	K	Joback Method
vc	1.006	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	821.91	J/mol×K	885.34	Joback Method
cpg	835.93	J/mol×K	922.51	Joback Method
cpg	848.66	J/mol×K	959.67	Joback Method
cpg	860.16	J/mol×K	996.84	Joback Method
cpg	870.46	J/mol×K	1034.01	Joback Method
cpg	879.60	J/mol×K	1071.18	Joback Method
cpg	887.63	J/mol×K	1108.34	Joback Method

# Sources

<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=U407525&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407525&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>

# 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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