

# Benzamide, N-heptyl-N-octyl-3-methoxy-

<b>Inchi:</b>	InChI=1S/C23H39NO2/c1-4-6-8-10-12-14-19-24(18-13-11-9-7-5-2)23(25)21-16-15-17-22
<b>InchiKey:</b>	WQYJKKTVDPIYGW-UHFFFAOYSA-N
<b>Formula:</b>	C23H39NO2
<b>SMILES:</b>	CCCCCCCCN(CCCCCC)C(=O)c1cccc(OC)c1
<b>Mol. weight [g/mol]:</b>	361.56

## Physical Properties

Property code	Value	Unit	Source
gf	122.42	kJ/mol	Joback Method
hf	-470.26	kJ/mol	Joback Method
hfus	54.79	kJ/mol	Joback Method
hvap	80.93	kJ/mol	Joback Method
log10ws	-7.18		Crippen Method
logp	6.468		Crippen Method
mvol	328.590	ml/mol	McGowan Method
pc	1063.79	kPa	Joback Method
rinpol	2673.00		NIST Webbook
rinpol	2673.00		NIST Webbook
tb	846.03	K	Joback Method
tc	1040.58	K	Joback Method
tf	492.54	K	Joback Method
vc	1.258	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1049.63	J/mol×K	846.03	Joback Method
cpg	1068.62	J/mol×K	878.46	Joback Method
cpg	1086.46	J/mol×K	910.88	Joback Method
cpg	1103.18	J/mol×K	943.31	Joback Method
cpg	1118.85	J/mol×K	975.73	Joback Method
cpg	1133.50	J/mol×K	1008.16	Joback Method
cpg	1147.18	J/mol×K	1040.58	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308153&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308153&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>hvp:</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>rinp:</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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