

# Benzamide, N-decyl-N-methyl-3-methoxy-

<b>Inchi:</b>	InChI=1S/C19H31NO2/c1-4-5-6-7-8-9-10-11-15-20(2)19(21)17-13-12-14-18(16-17)22-3/
<b>InchiKey:</b>	KDDXTAJFRHNUMT-UHFFFAOYSA-N
<b>Formula:</b>	C19H31NO2
<b>SMILES:</b>	CCCCCCCCCN(C)C(=O)c1cccc(OC)c1
<b>Mol. weight [g/mol]:</b>	305.45

## Physical Properties

Property code	Value	Unit	Source
gf	88.74	kJ/mol	Joback Method
hf	-387.70	kJ/mol	Joback Method
hfus	44.43	kJ/mol	Joback Method
hvap	72.03	kJ/mol	Joback Method
log10ws	-5.50		Crippen Method
logp	4.908		Crippen Method
mvol	272.230	ml/mol	McGowan Method
pc	1390.22	kPa	Joback Method
rinpol	2424.00		NIST Webbook
rinpol	2424.00		NIST Webbook
tb	754.51	K	Joback Method
tc	945.46	K	Joback Method
tf	447.46	K	Joback Method
vc	1.034	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	809.71	J/mol×K	754.51	Joback Method
cpg	827.71	J/mol×K	786.33	Joback Method
cpg	844.67	J/mol×K	818.16	Joback Method
cpg	860.63	J/mol×K	849.98	Joback Method
cpg	875.63	J/mol×K	881.81	Joback Method
cpg	889.71	J/mol×K	913.63	Joback Method
cpg	902.90	J/mol×K	945.46	Joback Method

# Sources

<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=U308150&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308150&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

# 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>h vap:</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>r in pol:</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

Latest version available from:

<https://www.cheméo.com/cid/97-680-0/Benzamide-N-decyl-N-methyl-3-methoxy.pdf>

Generated by Cheméo on 2024-04-23 15:09:04.704705342 +0000 UTC m=+16174193.625282664.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.