

# Benzamide, N,N-dioctyl-4-chloro-

<b>Inchi:</b>	InChI=1S/C23H38ClNO/c1-3-5-7-9-11-13-19-25(20-14-12-10-8-6-4-2)23(26)21-15-17-22
<b>InchiKey:</b>	MLJYWQWBVWXDK-UHFFFAOYSA-N
<b>Formula:</b>	C23H38ClNO
<b>SMILES:</b>	CCCCCCCCN(CCCCCCCC)C(=O)c1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	380.01

## Physical Properties

Property code	Value	Unit	Source
gf	215.49	kJ/mol	Joback Method
hf	-353.78	kJ/mol	Joback Method
hfus	57.79	kJ/mol	Joback Method
hvap	82.90	kJ/mol	Joback Method
log10ws	-8.16		Crippen Method
logp	7.503		Crippen Method
mvol	334.960	ml/mol	McGowan Method
pc	1050.05	kPa	Joback Method
rinpol	2670.00		NIST Webbook
rinpol	2670.00		NIST Webbook
tb	861.04	K	Joback Method
tc	1059.29	K	Joback Method
tf	500.23	K	Joback Method
vc	1.288	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1049.53	J/mol×K	861.04	Joback Method
cpg	1067.88	J/mol×K	894.08	Joback Method
cpg	1085.14	J/mol×K	927.12	Joback Method
cpg	1101.37	J/mol×K	960.16	Joback Method
cpg	1116.65	J/mol×K	993.20	Joback Method
cpg	1131.02	J/mol×K	1026.24	Joback Method
cpg	1144.57	J/mol×K	1059.29	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308592&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308592&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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