

# Benzamide, 3-chloro-N-(3-chlorobenzoyl)-N-octyl-

Inchi:	InChI=1S/C22H25Cl2NO2/c1-2-3-4-5-6-7-14-25(21(26)17-10-8-12-19(23)15-17)22(27)18
InchiKey:	JSRIWRCRFJSFPY-UHFFFAOYSA-N
Formula:	C22H25Cl2NO2
SMILES:	CCCCCCCCN(C(=O)c1cccc(Cl)c1)C(=O)c1cccc(Cl)c1
Mol. weight [g/mol]:	406.35

## Physical Properties

Property code	Value	Unit	Source
gf	169.00	kJ/mol	Joback Method
hf	-236.40	kJ/mol	Joback Method
hfus	54.65	kJ/mol	Joback Method
hvap	94.75	kJ/mol	Joback Method
log10ws	-7.88		Crippen Method
logp	6.637		Crippen Method
mvol	310.920	ml/mol	McGowan Method
pc	1426.15	kPa	Joback Method
rinpol	2847.00		NIST Webbook
rinpol	2847.00		NIST Webbook
tb	961.12	K	Joback Method
tc	1191.09	K	Joback Method
tf	607.75	K	Joback Method
vc	1.179	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	930.38	J/molxK	961.12	Joback Method
cpg	943.62	J/molxK	999.45	Joback Method
cpg	955.84	J/molxK	1037.78	Joback Method
cpg	967.12	J/molxK	1076.10	Joback Method
cpg	977.56	J/molxK	1114.43	Joback Method
cpg	987.27	J/molxK	1152.76	Joback Method
cpg	996.34	J/molxK	1191.09	Joback Method

# Sources

<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.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>
<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=U407996&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407996&amp;Units=SI</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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