

# 4-Chlorobenzamide, N-(4-chlorobenzoyl)-N-(3-methylbutyl)-

**Inchi:** InChI=1S/C19H19Cl2NO2/c1-13(2)11-12-22(18(23)14-3-7-16(20)8-4-14)19(24)15-5-9-17

**InchiKey:** MGEARLDXDCORFU-UHFFFAOYSA-N

**Formula:** C19H19Cl2NO2

**SMILES:** CC(C)CCN(C(=O)c1ccc(Cl)cc1)C(=O)c1ccc(Cl)cc1

**Mol. weight [g/mol]:** 364.27

## Physical Properties

Property code	Value	Unit	Source
gf	141.30	kJ/mol	Joback Method
hf	-179.76	kJ/mol	Joback Method
hfus	43.36	kJ/mol	Joback Method
hvap	87.68	kJ/mol	Joback Method
log10ws	-6.39		Crippen Method
logp	5.322		Crippen Method
mvol	268.650	ml/mol	McGowan Method
pc	1807.70	kPa	Joback Method
rinpol	2543.00		NIST Webbook
rinpol	2543.00		NIST Webbook
tb	892.04	K	Joback Method
tc	1129.01	K	Joback Method
tf	558.94	K	Joback Method
vc	1.006	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	757.32	J/molxK	892.04	Joback Method
cpg	770.05	J/molxK	931.54	Joback Method
cpg	781.68	J/molxK	971.03	Joback Method
cpg	792.31	J/molxK	1010.53	Joback Method
cpg	802.04	J/molxK	1050.02	Joback Method
cpg	810.95	J/molxK	1089.52	Joback Method
cpg	819.15	J/molxK	1129.01	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=U407104&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407104&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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