

# 4-Chlorobenzamide, N-(4-chlorobenzoyl)-N-pentyl-

Inchi:	InChI=1S/C19H19Cl2NO2/c1-2-3-4-13-22(18(23)14-5-9-16(20)10-6-14)19(24)15-7-11-17
InchiKey:	OWGWOAQRBWOTTA-UHFFFAOYSA-N
Formula:	C19H19Cl2NO2
SMILES:	CCCCCN(C(=O)c1ccc(Cl)cc1)C(=O)c1ccc(Cl)cc1
Mol. weight [g/mol]:	364.27

## Physical Properties

Property code	Value	Unit	Source
gf	143.74	kJ/mol	Joback Method
hf	-174.48	kJ/mol	Joback Method
hfus	46.88	kJ/mol	Joback Method
hvap	88.07	kJ/mol	Joback Method
log10ws	-6.63		Crippen Method
logp	5.466		Crippen Method
mcvol	268.650	ml/mol	McGowan Method
pc	1795.46	kPa	Joback Method
rinpol	2589.00		NIST Webbook
rinpol	2589.00		NIST Webbook
tb	892.48	K	Joback Method
tc	1126.24	K	Joback Method
tf	573.94	K	Joback Method
vc	1.012	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	756.77	J/molxK	892.48	Joback Method
cpg	769.37	J/molxK	931.44	Joback Method
cpg	780.91	J/molxK	970.40	Joback Method
cpg	791.49	J/molxK	1009.36	Joback Method
cpg	801.21	J/molxK	1048.32	Joback Method
cpg	810.14	J/molxK	1087.28	Joback Method
cpg	818.38	J/molxK	1126.24	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=U407105&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407105&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>

# 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

Latest version available from:

<https://www.cheméo.com/cid/113-171-6/4-Chlorobenzamide-N-4-chlorobenzoyl-N-pentyl.pdf>

Generated by Cheméo on 2024-05-03 08:22:13.668630579 +0000 UTC m=+17013782.589207890.

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