

# Pentanamide, N-(4-bromophenyl)-5-chloro-

<b>Inchi:</b>	InChI=1S/C11H13BrClNO/c12-9-4-6-10(7-5-9)14-11(15)3-1-2-8-13/h4-7H,1-3,8H2,(H,14,
<b>InchiKey:</b>	CFOVGBMBEDOVGW-UHFFFAOYSA-N
<b>Formula:</b>	C11H13BrClNO
<b>SMILES:</b>	O=C(CCCCCI)Nc1ccc(Br)cc1
<b>Mol. weight [g/mol]:</b>	290.58

## Physical Properties

Property code	Value	Unit	Source
gf	107.38	kJ/mol	Joback Method
hf	-93.83	kJ/mol	Joback Method
hfus	34.08	kJ/mol	Joback Method
hvap	67.02	kJ/mol	Joback Method
log10ws	-4.25		Crippen Method
logp	3.797		Crippen Method
mcvol	183.380	ml/mol	McGowan Method
pc	2921.84	kPa	Joback Method
rinsol	2210.00		NIST Webbook
tb	690.37	K	Joback Method
tc	917.82	K	Joback Method
tf	444.98	K	Joback Method
vc	0.696	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	432.83	J/mol×K	690.37	Joback Method
cpg	444.79	J/mol×K	728.28	Joback Method
cpg	455.89	J/mol×K	766.19	Joback Method
cpg	466.18	J/mol×K	804.09	Joback Method
cpg	475.72	J/mol×K	842.00	Joback Method
cpg	484.55	J/mol×K	879.91	Joback Method
cpg	492.73	J/mol×K	917.82	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=U307362&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307362&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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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