

# Cyclohexanecarboxamide, N-(4-bromophenyl)-

<b>Inchi:</b>	InChI=1S/C13H16BrNO/c14-11-6-8-12(9-7-11)15-13(16)10-4-2-1-3-5-10/h6-10H,1-5H2,(
<b>InchiKey:</b>	JENRJNSQQXLAFZ-UHFFFAOYSA-N
<b>Formula:</b>	C13H16BrNO
<b>SMILES:</b>	O=C(Nc1ccc(Br)cc1)C1CCCCC1
<b>Mol. weight [g/mol]:</b>	282.18

## Physical Properties

Property code	Value	Unit	Source
gf	160.60	kJ/mol	Joback Method
hf	-65.05	kJ/mol	Joback Method
hfus	26.90	kJ/mol	Joback Method
hvap	67.52	kJ/mol	Joback Method
log10ws	-4.58		Crippen Method
logp	3.968		Crippen Method
mcvol	188.460	ml/mol	McGowan Method
pc	3086.42	kPa	Joback Method
rinpol	2191.00		NIST Webbook
tb	718.25	K	Joback Method
tc	971.31	K	Joback Method
tf	444.98	K	Joback Method
vc	0.692	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	502.33	J/mol×K	718.25	Joback Method
cpg	518.88	J/mol×K	760.43	Joback Method
cpg	534.00	J/mol×K	802.60	Joback Method
cpg	547.80	J/mol×K	844.78	Joback Method
cpg	560.35	J/mol×K	886.96	Joback Method
cpg	571.74	J/mol×K	929.13	Joback Method
cpg	582.05	J/mol×K	971.31	Joback Method

# Sources

<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>
<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=U306949&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U306949&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>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>mccvol:</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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