

# Octanamide, N-(4-bromophenyl)-

<b>Inchi:</b>	InChI=1S/C14H20BrNO/c1-2-3-4-5-6-7-14(17)16-13-10-8-12(15)9-11-13/h8-11H,2-7H2,1
<b>InchiKey:</b>	KBXUYPJOGOGXDD-UHFFFAOYSA-N
<b>Formula:</b>	C14H20BrNO
<b>SMILES:</b>	CCCCCCCC(=O)Nc1ccc(Br)cc1
<b>Mol. weight [g/mol]:</b>	298.22

## Physical Properties

Property code	Value	Unit	Source
gf	144.57	kJ/mol	Joback Method
hf	-140.01	kJ/mol	Joback Method
hfus	37.65	kJ/mol	Joback Method
hvap	69.31	kJ/mol	Joback Method
log10ws	-5.35		Crippen Method
logp	4.748		Crippen Method
mcvol	213.410	ml/mol	McGowan Method
pc	2265.42	kPa	Joback Method
rinqol	2253.00		NIST Webbook
tb	721.58	K	Joback Method
tc	935.27	K	Joback Method
tf	448.87	K	Joback Method
vc	0.815	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	563.56	J/mol×K	721.58	Joback Method
cpg	578.10	J/mol×K	757.19	Joback Method
cpg	591.71	J/mol×K	792.81	Joback Method
cpg	604.43	J/mol×K	828.42	Joback Method
cpg	616.32	J/mol×K	864.04	Joback Method
cpg	627.44	J/mol×K	899.65	Joback Method
cpg	637.82	J/mol×K	935.27	Joback Method

# Sources

<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=U306927&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U306927&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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