

# Acetamide, N-[5-bromo-(1,1'-biphenyl)-2-yl]-

<b>Other names:</b>	2-acetamido-5-bromo-biphenyl
<b>Inchi:</b>	InChI=1S/C14H12BrNO/c1-10(17)16-14-8-7-12(15)9-13(14)11-5-3-2-4-6-11/h2-9H,1H3,(
<b>InchiKey:</b>	JUQQQHKZFREBLC-UHFFFAOYSA-N
<b>Formula:</b>	C14H12BrNO
<b>SMILES:</b>	CC(=O)Nc1ccc(Br)cc1-c1ccccc1
<b>Mol. weight [g/mol]:</b>	290.15
<b>CAS:</b>	7147-52-6

## Physical Properties

Property code	Value	Unit	Source
gf	247.35	kJ/mol	Joback Method
hf	85.05	kJ/mol	Joback Method
hfus	31.30	kJ/mol	Joback Method
hvap	72.25	kJ/mol	Joback Method
log10ws	-5.44		Crippen Method
logp	4.075		Crippen Method
mcvol	189.650	ml/mol	McGowan Method
pc	3138.51	kPa	Joback Method
tb	753.24	K	Joback Method
tc	1008.78	K	Joback Method
tf	487.81	K	Joback Method
vc	0.707	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	473.27	J/molxK	753.24	Joback Method
cpg	486.07	J/molxK	795.83	Joback Method
cpg	497.75	J/molxK	838.42	Joback Method
cpg	508.40	J/molxK	881.01	Joback Method
cpg	518.11	J/molxK	923.60	Joback Method
cpg	526.97	J/molxK	966.19	Joback Method
cpg	535.06	J/molxK	1008.78	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=C7147526&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7147526&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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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