

# Acetamide, N-(4-bromophenyl)-2,2,2-trifluoro-

<b>Inchi:</b>	InChI=1S/C8H5BrF3NO/c9-5-1-3-6(4-2-5)13-7(14)8(10,11)12/h1-4H,(H,13,14)
<b>InchiKey:</b>	VVFNAMWSGDFCX-UHFFFAOYSA-N
<b>Formula:</b>	C8H5BrF3NO
<b>SMILES:</b>	O=C(Nc1ccc(Br)cc1)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	268.03

## Physical Properties

Property code	Value	Unit	Source
gf	-487.54	kJ/mol	Joback Method
hf	-613.25	kJ/mol	Joback Method
hfus	23.94	kJ/mol	Joback Method
hvap	52.21	kJ/mol	Joback Method
log10ws	-3.50		Crippen Method
logp	2.950		Crippen Method
mcvol	134.180	ml/mol	McGowan Method
pc	3713.49	kPa	Joback Method
rinpol	1376.00		NIST Webbook
rinpol	1376.00		NIST Webbook
tb	578.88	K	Joback Method
tc	796.67	K	Joback Method
tf	385.44	K	Joback Method
vc	0.521	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	296.17	J/mol×K	578.88	Joback Method
cpg	305.72	J/mol×K	615.18	Joback Method
cpg	314.45	J/mol×K	651.48	Joback Method
cpg	322.42	J/mol×K	687.77	Joback Method
cpg	329.68	J/mol×K	724.07	Joback Method
cpg	336.30	J/mol×K	760.37	Joback Method
cpg	342.33	J/mol×K	796.67	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U307312&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307312&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>
<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>

# Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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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