

# 2-Bromoacetamide

<b>Other names:</b>	Acetamide, 2-bromo-Bromoacetamide
<b>Inchi:</b>	InChI=1S/C2H4BrNO/c3-1-2(4)5/h1H2,(H2,4,5)
<b>InchiKey:</b>	JUIKUQOUMZUFQT-UHFFFAOYSA-N
<b>Formula:</b>	C2H4BrNO
<b>SMILES:</b>	NC(=O)CBr
<b>Mol. weight [g/mol]:</b>	137.96
<b>CAS:</b>	683-57-8

## Physical Properties

Property code	Value	Unit	Source
gf	-82.19	kJ/mol	Joback Method
hf	-137.07	kJ/mol	Joback Method
hfus	13.02	kJ/mol	Joback Method
hvap	43.87	kJ/mol	Joback Method
log10ws	-0.30		Crippen Method
logp	-0.133		Crippen Method
mvol	68.090	ml/mol	McGowan Method
pc	6707.62	kPa	Joback Method
tb	437.72	K	Joback Method
tc	656.98	K	Joback Method
tf	305.29	K	Joback Method
vc	0.244	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	108.88	J/molxK	437.72	Joback Method
cpg	113.67	J/molxK	474.26	Joback Method
cpg	118.17	J/molxK	510.81	Joback Method
cpg	122.37	J/molxK	547.35	Joback Method
cpg	126.31	J/molxK	583.89	Joback Method
cpg	129.99	J/molxK	620.44	Joback Method
cpg	133.43	J/molxK	656.98	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C683578&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C683578&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>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>hvp:</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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