

# Acetophenone, 2'-bromo-4'-nitro-

<b>Inchi:</b>	InChI=1S/C8H6BrNO3/c1-5(11)7-3-2-6(10(12)13)4-8(7)9/h2-4H,1H3
<b>InchiKey:</b>	GDJSHDDCLWALGA-UHFFFAOYSA-N
<b>Formula:</b>	C8H6BrNO3
<b>SMILES:</b>	CC(=O)c1ccc([N+](=O)[O-])cc1Br
<b>Mol. weight [g/mol]:</b>	244.04
<b>CAS:</b>	90004-93-6

## Physical Properties

Property code	Value	Unit	Source
gf	30.58	kJ/mol	Joback Method
hf	-91.87	kJ/mol	Joback Method
hfus	27.98	kJ/mol	Joback Method
hvap	66.77	kJ/mol	Joback Method
log10ws	-3.95		Crippen Method
logp	2.560		Crippen Method
mcvol	136.310	ml/mol	McGowan Method
pc	4211.09	kPa	Joback Method
tb	690.95	K	Joback Method
tc	955.36	K	Joback Method
tf	484.72	K	Joback Method
vc	0.525	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	302.68	J/molxK	690.95	Joback Method
cpg	311.86	J/molxK	735.02	Joback Method
cpg	320.21	J/molxK	779.09	Joback Method
cpg	327.81	J/molxK	823.16	Joback Method
cpg	334.71	J/molxK	867.23	Joback Method
cpg	340.96	J/molxK	911.30	Joback Method
cpg	346.60	J/molxK	955.36	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C90004936&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C90004936&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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