

# 4-Bromo-2-methyl-6-nitroaniline

<b>Other names:</b>	Benzenamine, 4-bromo-2-methyl-6-nitro-
<b>Inchi:</b>	InChI=1S/C7H7BrN2O2/c1-4-2-5(8)3-6(7(4)9)10(11)12/h2-3H,9H2,1H3
<b>InchiKey:</b>	ZXFVKFUXKFPUQJ-UHFFFAOYSA-N
<b>Formula:</b>	C7H7BrN2O2
<b>SMILES:</b>	<chem>Cc1cc(Br)cc([N+](=O)[O-])c1N</chem>
<b>Mol. weight [g/mol]:</b>	231.05
<b>CAS:</b>	77811-44-0

## Physical Properties

Property code	Value	Unit	Source
gf	207.90	kJ/mol	Joback Method
hf	63.67	kJ/mol	Joback Method
hfus	28.60	kJ/mol	Joback Method
hvap	69.11	kJ/mol	Joback Method
log10ws	-3.39		Crippen Method
logp	2.248		Crippen Method
mcvol	130.630	ml/mol	McGowan Method
pc	4652.99	kPa	Joback Method
tb	691.71	K	Joback Method
tc	962.68	K	Joback Method
tf	519.30	K	Joback Method
vc	0.492	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	295.35	J/molxK	691.71	Joback Method
cpg	304.48	J/molxK	736.87	Joback Method
cpg	312.84	J/molxK	782.03	Joback Method
cpg	320.50	J/molxK	827.20	Joback Method
cpg	327.49	J/molxK	872.36	Joback Method
cpg	333.87	J/molxK	917.52	Joback Method
cpg	339.68	J/molxK	962.68	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=C77811440&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C77811440&amp;Units=SI</a>
<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>

# 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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