

# Benzenamine, 2-bromo-4-nitro-

<b>Other names:</b>	2-Bromo-4-nitroaniline Aniline, 2-bromo-4-nitro-
<b>Inchi:</b>	InChI=1S/C6H5BrN2O2/c7-5-3-4(9(10)11)1-2-6(5)8/h1-3H,8H2
<b>InchiKey:</b>	CGPPWNTVTNCHDO-UHFFFAOYSA-N
<b>Formula:</b>	C6H5BrN2O2
<b>SMILES:</b>	<chem>Nc1ccc([N+](=O)[O-])cc1Br</chem>
<b>Mol. weight [g/mol]:</b>	217.02
<b>CAS:</b>	13296-94-1

## Physical Properties

Property code	Value	Unit	Source
gf	209.11	kJ/mol	Joback Method
hf	95.78	kJ/mol	Joback Method
hfus	26.40	kJ/mol	Joback Method
hvap	66.22	kJ/mol	Joback Method
log10ws	-2.92		Crippen Method
logp	1.939		Crippen Method
mcvol	116.540	ml/mol	McGowan Method
pc	5446.55	kPa	Joback Method
tb	663.85	K	Joback Method
tc	941.03	K	Joback Method
tf	495.51	K	Joback Method
vc	0.436	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	250.58	J/molxK	663.85	Joback Method
cpg	258.82	J/molxK	710.05	Joback Method
cpg	266.30	J/molxK	756.24	Joback Method
cpg	273.07	J/molxK	802.44	Joback Method
cpg	279.20	J/molxK	848.64	Joback Method
cpg	284.75	J/molxK	894.83	Joback Method
cpg	289.78	J/molxK	941.03	Joback Method

# Sources

<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=C13296941&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C13296941&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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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