

# 3-Bromo-2-hydroxy-5-nitrobenzaldehyde

<b>Inchi:</b>	InChI=1S/C7H4BrNO4/c8-6-2-5(9(12)13)1-4(3-10)7(6)11/h1-3,11H
<b>InchiKey:</b>	BESBCGANGAEHPM-UHFFFAOYSA-N
<b>Formula:</b>	C7H4BrNO4
<b>SMILES:</b>	O=Cc1cc([N+](=O)[O-])cc(Br)c1O
<b>Mol. weight [g/mol]:</b>	246.01
<b>CAS:</b>	16789-84-7

## Physical Properties

Property code	Value	Unit	Source
gf	-103.06	kJ/mol	Joback Method
hf	-221.54	kJ/mol	Joback Method
hfus	31.87	kJ/mol	Joback Method
hvap	77.54	kJ/mol	Joback Method
log10ws	-3.07		Crippen Method
logp	1.875		Crippen Method
mcvol	128.090	ml/mol	McGowan Method
pc	6056.11	kPa	Joback Method
tb	743.48	K	Joback Method
tc	1014.70	K	Joback Method
tf	577.24	K	Joback Method
vc	0.447	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	290.26	J/molxK	743.48	Joback Method
cpg	296.88	J/molxK	788.68	Joback Method
cpg	303.09	J/molxK	833.89	Joback Method
cpg	308.99	J/molxK	879.09	Joback Method
cpg	314.74	J/molxK	924.30	Joback Method
cpg	320.46	J/molxK	969.50	Joback Method
cpg	326.27	J/molxK	1014.70	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=C16789847&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16789847&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>mccvol:</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

Latest version available from:

<https://www.chemeo.com/cid/44-327-0/3-Bromo-2-hydroxy-5-nitrobenzaldehyde.pdf>

Generated by Cheméo on 2024-04-27 21:58:13.698583835 +0000 UTC m=+16544342.619161150.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.