

# Benzamide, N-(3-nitrophenyl)-2-bromo-

<b>Inchi:</b>	InChI=1S/C13H9BrN2O3/c14-12-7-2-1-6-11(12)13(17)15-9-4-3-5-10(8-9)16(18)19/h1-8H
<b>InchiKey:</b>	SMAIGFKAVOUSHO-UHFFFAOYSA-N
<b>Formula:</b>	C13H9BrN2O3
<b>SMILES:</b>	O=C(Nc1cccc([N+](=O)[O-])c1)c1ccccc1Br
<b>Mol. weight [g/mol]:</b>	321.13

## Physical Properties

Property code	Value	Unit	Source
gf	274.48	kJ/mol	Joback Method
hf	94.93	kJ/mol	Joback Method
hfus	40.07	kJ/mol	Joback Method
hvap	86.62	kJ/mol	Joback Method
log10ws	-5.26		Crippen Method
logp	3.610		Crippen Method
mcvol	192.980	ml/mol	McGowan Method
pc	3555.77	kPa	Joback Method
rinpol	2604.00		NIST Webbook
rinpol	2604.00		NIST Webbook
tb	882.20	K	Joback Method
tc	1158.52	K	Joback Method
tf	620.15	K	Joback Method
vc	0.733	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	505.66	J/mol×K	882.20	Joback Method
cpg	515.19	J/mol×K	928.25	Joback Method
cpg	523.72	J/mol×K	974.31	Joback Method
cpg	531.37	J/mol×K	1020.36	Joback Method
cpg	538.27	J/mol×K	1066.41	Joback Method
cpg	544.52	J/mol×K	1112.47	Joback Method
cpg	550.25	J/mol×K	1158.52	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U307390&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307390&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>rinp:</b>	Non-polar retention indices
<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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