

# 2-Bromobenzoic acid, 4-nitrophenyl ester

<b>Inchi:</b>	InChI=1S/C13H8BrNO4/c14-12-4-2-1-3-11(12)13(16)19-10-7-5-9(6-8-10)15(17)18/h1-8H
<b>InchiKey:</b>	GMZLSLUTABHXMQ-UHFFFAOYSA-N
<b>Formula:</b>	C13H8BrNO4
<b>SMILES:</b>	O=C(Oc1ccc([N+](=O)[O-])cc1)c1ccccc1Br
<b>Mol. weight [g/mol]:</b>	322.11

## Physical Properties

Property code	Value	Unit	Source
gf	80.09	kJ/mol	Joback Method
hf	-90.76	kJ/mol	Joback Method
hfus	36.16	kJ/mol	Joback Method
hvap	82.59	kJ/mol	Joback Method
log10ws	-5.37		Crippen Method
logp	3.576		Crippen Method
mcvol	188.870	ml/mol	McGowan Method
pc	3431.89	kPa	Joback Method
rinpol	2346.00		NIST Webbook
rinpol	2346.00		NIST Webbook
tb	854.45	K	Joback Method
tc	1131.19	K	Joback Method
tf	589.72	K	Joback Method
vc	0.716	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	482.78	J/molxK	854.45	Joback Method
cpg	492.50	J/molxK	900.57	Joback Method
cpg	501.09	J/molxK	946.70	Joback Method
cpg	508.62	J/molxK	992.82	Joback Method
cpg	515.17	J/molxK	1038.95	Joback Method
cpg	520.81	J/molxK	1085.07	Joback Method
cpg	525.64	J/molxK	1131.19	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=U307748&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307748&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>rinpola:</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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