

# 4-Nitrobenzoic acid, 2-bromo-4-fluorophenyl ester

<b>Inchi:</b>	InChI=1S/C13H7BrFNO4/c14-11-7-9(15)3-6-12(11)20-13(17)8-1-4-10(5-2-8)16(18)19/h1
<b>InchiKey:</b>	PFUMDTSGYRZZME-UHFFFAOYSA-N
<b>Formula:</b>	C13H7BrFNO4
<b>SMILES:</b>	O=C(Oc1ccc(F)cc1Br)c1ccc([N+](=O)[O-])cc1
<b>Mol. weight [g/mol]:</b>	340.10

## Physical Properties

Property code	Value	Unit	Source
gf	-124.35	kJ/mol	Joback Method
hf	-298.34	kJ/mol	Joback Method
hfus	38.85	kJ/mol	Joback Method
hvap	82.43	kJ/mol	Joback Method
log10ws	-5.70		Crippen Method
logp	3.716		Crippen Method
mcvol	190.640	ml/mol	McGowan Method
pc	3202.78	kPa	Joback Method
rinqol	2194.00		NIST Webbook
tb	858.70	K	Joback Method
tc	1124.57	K	Joback Method
tf	602.83	K	Joback Method
vc	0.734	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	488.27	J/mol×K	858.70	Joback Method
cpg	497.38	J/mol×K	903.01	Joback Method
cpg	505.44	J/mol×K	947.32	Joback Method
cpg	512.50	J/mol×K	991.63	Joback Method
cpg	518.63	J/mol×K	1035.94	Joback Method
cpg	523.89	J/mol×K	1080.25	Joback Method
cpg	528.33	J/mol×K	1124.57	Joback Method

# Sources

<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=U299035&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U299035&amp;Units=SI</a>
<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>

# 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>rinpolar:</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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