

# Benzamide, N-(4-bromophenyl)-3-fluoro-

<b>Inchi:</b>	InChI=1S/C13H9BrFNO/c14-10-4-6-12(7-5-10)16-13(17)9-2-1-3-11(15)8-9/h1-8H,(H,16,17)
<b>InchiKey:</b>	DOYJIIIXKFSCOF-UHFFFAOYSA-N
<b>Formula:</b>	C13H9BrFNO
<b>SMILES:</b>	O=C(Nc1ccc(Br)cc1)c1cccc(F)c1
<b>Mol. weight [g/mol]:</b>	294.12

## Physical Properties

Property code	Value	Unit	Source
gf	44.12	kJ/mol	Joback Method
hf	-90.42	kJ/mol	Joback Method
hfus	31.79	kJ/mol	Joback Method
hvap	69.21	kJ/mol	Joback Method
log10ws	-4.94		Crippen Method
logp	3.840		Crippen Method
mcvol	177.330	ml/mol	McGowan Method
pc	3325.84	kPa	Joback Method
rinsol	2217.00		NIST Webbook
tb	729.63	K	Joback Method
tc	979.25	K	Joback Method
tf	477.13	K	Joback Method
vc	0.668	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	429.72	J/molxK	729.63	Joback Method
cpg	441.35	J/molxK	771.23	Joback Method
cpg	451.94	J/molxK	812.84	Joback Method
cpg	461.58	J/molxK	854.44	Joback Method
cpg	470.34	J/molxK	896.04	Joback Method
cpg	478.31	J/molxK	937.65	Joback Method
cpg	485.56	J/molxK	979.25	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=U307167&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307167&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>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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