

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

Inchi:	InChI=1S/C14H7BrFNO2/c15-12-7-11(16)5-6-13(12)19-14(18)10-3-1-9(8-17)2-4-10/h1-7
InchiKey:	NDDGFRXURFDMFK-UHFFFAOYSA-N
Formula:	C14H7BrFNO2
SMILES:	N#Cc1ccc(C(=O)Oc2ccc(F)cc2Br)cc1
Mol. weight [g/mol]:	320.11

## Physical Properties

Property code	Value	Unit	Source
gf	-18.30	kJ/mol	Joback Method
hf	-143.34	kJ/mol	Joback Method
hfus	31.59	kJ/mol	Joback Method
hvap	78.55	kJ/mol	Joback Method
log10ws	-5.41		Crippen Method
logp	3.679		Crippen Method
mcvol	188.690	ml/mol	McGowan Method
pc	2770.08	kPa	Joback Method
rinpola	1987.70		NIST Webbook
tb	831.82	K	Joback Method
tc	1085.54	K	Joback Method
tf	535.48	K	Joback Method
vc	0.734	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	464.83	J/mol×K	831.82	Joback Method
cpg	473.90	J/mol×K	874.11	Joback Method
cpg	482.04	J/mol×K	916.39	Joback Method
cpg	489.29	J/mol×K	958.68	Joback Method
cpg	495.71	J/mol×K	1000.97	Joback Method
cpg	501.33	J/mol×K	1043.26	Joback Method
cpg	506.20	J/mol×K	1085.54	Joback Method

# Sources

<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=U292659&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U292659&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>

# 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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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