

# Fumaric acid, monoamide, N,N-dimethyl-, 2-bromo-4-fluorophenyl ester

<b>Inchi:</b>	InChI=1S/C12H11BrFNO3/c1-15(2)11(16)5-6-12(17)18-10-4-3-8(14)7-9(10)13/h3-7H,1-2
<b>InchiKey:</b>	BSOWWZLHXHYEGAG-AATRIKPKSA-N
<b>Formula:</b>	C12H11BrFNO3
<b>SMILES:</b>	CN(C)C(=O)C=CC(=O)Oc1ccc(F)cc1Br
<b>Mol. weight [g/mol]:</b>	316.12

## Physical Properties

Property code	Value	Unit	Source
gf	-209.02	kJ/mol	Joback Method
hf	-419.83	kJ/mol	Joback Method
hfus	36.07	kJ/mol	Joback Method
hvap	69.43	kJ/mol	Joback Method
log10ws	-3.15		Crippen Method
logp	2.138		Crippen Method
mcvol	190.140	ml/mol	McGowan Method
pc	2811.36	kPa	Joback Method
rinqol	2205.00		NIST Webbook
tb	722.79	K	Joback Method
tc	944.43	K	Joback Method
tf	486.33	K	Joback Method
vc	0.708	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	468.21	J/molxK	722.79	Joback Method
cpg	479.34	J/molxK	759.73	Joback Method
cpg	489.66	J/molxK	796.67	Joback Method
cpg	499.20	J/molxK	833.61	Joback Method
cpg	508.02	J/molxK	870.55	Joback Method
cpg	516.17	J/molxK	907.49	Joback Method
cpg	523.70	J/molxK	944.43	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=U357414&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357414&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>

# 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>mccvol:</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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