

# Fumaric acid, monoamide, N-(2-bromophenyl)-, 3,5-difluorophenyl ester

**Other names:** Fumaric acid, monoamide, N-(2-bromophenyl)-, 3,5-fluorophenyl ester

**Inchi:** InChI=1S/C16H10BrF2NO3/c17-13-3-1-2-4-14(13)20-15(21)5-6-16(22)23-12-8-10(18)7-

**InchiKey:** IDSBBDZGAFTYLY-AATRIKPKSA-N

**Formula:** C16H10BrF2NO3

**SMILES:** O=C(C=CC(=O)Oc1cc(F)cc(F)c1)Nc1ccccc1Br

**Mol. weight [g/mol]:** 382.16

## Physical Properties

Property code	Value	Unit	Source
gf	-288.76	kJ/mol	Joback Method
hf	-487.50	kJ/mol	Joback Method
hfus	45.24	kJ/mol	Joback Method
hvap	84.84	kJ/mol	Joback Method
log10ws	-5.32		Crippen Method
logp	3.828		Crippen Method
mcvol	224.510	ml/mol	McGowan Method
pc	2540.49	kPa	Joback Method
rinpol	2669.00		NIST Webbook
rinpol	2669.00		NIST Webbook
tb	882.97	K	Joback Method
tc	1120.65	K	Joback Method
tf	591.13	K	Joback Method
vc	0.859	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	598.68	J/molxK	882.97	Joback Method
cpg	608.32	J/molxK	922.58	Joback Method
cpg	617.08	J/molxK	962.20	Joback Method
cpg	625.02	J/molxK	1001.81	Joback Method
cpg	632.21	J/molxK	1041.43	Joback Method
cpg	638.73	J/molxK	1081.04	Joback Method
cpg	644.64	J/molxK	1120.65	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=U357408&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357408&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>hvp:</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>rinp:</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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